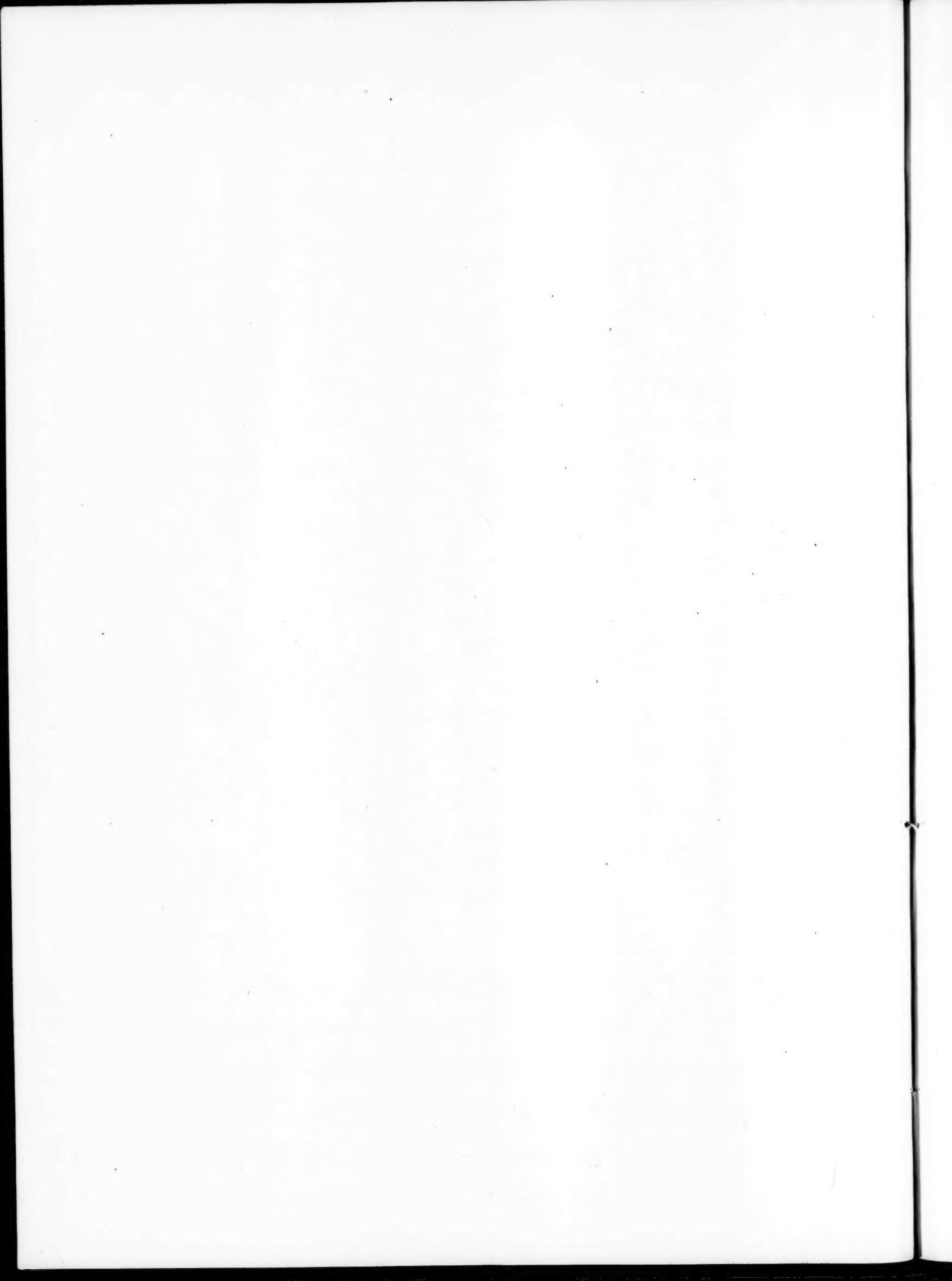


# INDEX

Sixty-third Quarto Volume—July 1, 1917, to December 31, 1917.

## AUTHORS

- Acworth, W. M., 50  
Aishton, R. H., 526, 547, 993, 1049  
Alfred, Frank H., 327  
Anthony, J. T., 557  
Atterbury, W. W., 394  
  
Babcock, Allen H., 96  
Barker, R. S., 408  
Barlow, H. C., 155  
Parnum, M. K., 350, 853  
Bentley, H. T., 749  
Beyer, O. S. Jr., 64  
Bixler, H. C., 57  
Bohan, W. J., 1173  
Bohon, W. J., 1068  
Boland, E. J., 530  
Bready, Stuart, 923  
Bristow, Joseph L., 1166  
Brown, Stephen H., 67  
Burke, M. E., 63  
Burt, A. M., 1158  
Butler, Pierce, 1123  
  
Campbell, J. E., 153  
Carr, O. O., 348, 1094  
Carrow, T. H., 518  
Carty, F. J., 235  
Castle, O. C., 279  
Clark, Edgar E., 276  
Corrigan, G. W., 830  
Corse, G. H. Jr., 1117  
Coss, J. L., 348  
Craven, Leslie, 1123  
  
Dean, J. A., 636  
De Groot, E. H. Jr., 658  
Doble, W. H., 411  
Dow, Marcus A., 459  
Dunn, Samuel O., 155, 750  
  
Edgerton, E. O., 863  
Edmonds, G. S., 878  
Edwards, L. N., 14  
Elliott, Howard, 31, 520, 662, 860, 1038  
Ely, Owen, 328  
Endsley, Louis E., 893  
  
Fisher, S. W., 282  
Foley, T. J., 154, 798  
Forman, Harry W., 388  
Fritch, L. C., 1015  
  
Gardner, H. A., 15  
Gennert, C. W. Jr., 531  
Givin, E. F., 178  
Glass, J. J., 66  
Goto, Sukehiko, 646, 791  
Green, F. W., 384  
  
Hand, G. C., 1035  
Hansen, William, 546  
Harrison, Fairfax, 139, 158, 525, 662, 928, 1031,  
    1073, 1142  
Hasey, A. C., 282  
Hauser, W. H., 799  
Heath, E. H., 881  
Hershey, Q. M., 178  
  
Hill, Major Royland, 432  
Hirsch, Herman D., 635  
Holden, Hale, 937  
Howard, James E., 996  
Howson, E. T., 529, 705  
Hoyt, G. L., 424  
Hoyt, W. H., 421  
Hustis, J. H., 860  
  
Irwin, A. C., 177, 635  
  
Jackson, Carl D., 1085, 1137  
James N. M., 971  
Johnson, H. W., 977  
  
Kadel, B. W., 285  
Katzenbach, L. E., 739  
Kean, John W., 591  
Keeler, Sidney J., 985  
Kennedy, Martin P., 856  
Knowles, C. R., 706  
Krausch, W. T., 993  
Kruttchnitt, J., 1116  
  
Larson, C. M., 1067  
Lemmerich, Gustave E., 50  
Lewis, Dwight N., 328  
Linn, John H., 245  
Lonsdale, John G., 740  
Looney, T. C., 971  
Loree, L. F., 353  
Lovett, Robert S., 927  
Lyndon, George W., 157  
  
McBeth, A., 878  
McChord, Commissioner C. C., 1045, 1079  
McDonald, C. J., 26  
McFilber, H. H., 224  
McKenzie, F. A., 1118  
Mann, Seth, 886  
Manning, Van H., 1129  
Markham, C. H., 449  
Maurer, W. R., 141  
Maxey, T. T., 379  
Meeks, T. H., 281  
Meyers, A. J., 569  
Miller, Henry, 979  
Morrison, R. W., 741  
Morrow, J. D. A., 1115  
Morse, W. C., 374  
Munholland, R. C., 837  
Myers, F. C., 1039  
  
Nelson, James P., 1067  
Newell, C. E., 1117  
Newlands, Francis G., 862  
Noble, H. S., 347  
  
Parks, Charles E., 551  
Patterson, George S., 858, 943  
Patton, F. E., 223  
Payne, J. L., 383  
Pearce, H. C., 707  
Pigeon, Homer, 409  
Porterfield, J. F., 156  
Powell, T. F., 339  
  
Pruebe, H. C., 1068  
Prouty, C. A., 599  
Pugh, S. B., 420  
  
Randolph, George F., 691  
Raymond, William G., 335  
Rea, Samuel, 680, 861, 974  
Reasoner, Mark H., 418, 458  
Reddig, H. F., 459  
Redfield, William C., 813  
Robinson, W. L., 513\*, 1131  
Ryan, T. T., 458  
  
Schaff, Charles E., 99  
Schooyer, A. M., 1173  
Selby, Grant, 224  
Shackell, L. F., 801  
Shaughnessy, E. H., 457  
Sherrill, Brig.-Gen. C. H., 1172  
Smith, A. H., 861  
Smith, C. E., 23, 734  
Smith, George T., 27  
Smith, J. W., 280  
Smith, S. H., 408  
Sperry, Henry M., 743  
Storey, W. B., 685  
Stuart, Francis Lee, 1181  
Sullivan, J. G., 474  
Summerhays, W. A., 528  
  
Teesdale, C. H., 801  
Thelen, Max, 693, 862, 877  
Thomson, Samuel G., 109, 785, 1081  
Thorne, Clifford, 944  
Trumbull, Frank, 876  
Turner, Avery, 449, 1067  
  
Underwood, F. D., 859  
  
Vanderlip, Frank A., 942  
Van Keuren, H. L., 112  
Vial, F. K., 157  
Von Schrenk, Dr. Hermann, 657  
  
Wanamaker, E., 391, 753  
Warburg, Paul, 942  
Warfield, S. Davies, 1115  
Weaver, C. R., 564  
Weise, F. E., 707  
Weston, A. H., 343  
Wherry, S. W., 889, 1164  
White, G. C., 339, 1117  
White, J. Lowell, 201  
Whittelsey, F. T., 546  
Wickhorst, M. H., 811  
Wildman, C. B., 65  
Willard, Daniel, 102, 274  
Williams, John Skelton, 891  
Williams, Lacey Y., 50  
Williams, T. H., 457  
Wilson, W., 347  
Winterrowd, W. H., 683  
Wishart, J. G., 229  
Wollner, William S., 178  
Wood, G. H., 426  
Wooding, B. F., 835  
Worden, E. J., 68



## GENERAL INDEX

[Illustrated articles are indicated thus \*; Editorials thus †; Letters to Editor thus ‡.]

## A

Academy of Political Science: Need for Storage Facilities, 1181  
 Accident (See also Safety First):  
     Baltimore & Ohio near Irving, 396  
     British Report for 1916, 477  
     Bureau of Safety's Investigations, 1178  
     Chicago, Burlington & Quincy near Earlville, 535  
     Chicago, Rock Island & Pacific at Midlothian, Ill., Grade Crossing, 47†, 56  
     Glasgow Subway, 132†, 140  
     Halifax Catastrophe, 1101, 1180\*  
     L. C. C. Bulletin No. 62, 462  
     Monthly Summaries: May, 108; June, 342; July, 700; August, 796; September, 849; October, 951; November, 1186  
     North Branford, Conn., Trolley Cars, 299, 369†, 656, 780†, 784‡  
     Prevention Work, Progress in, 459  
     Responsibility of Automobile Passengers, 445†  
     St. Louis-San Francisco at Kellyville, 620  
     Southern Railway at Larmond, 1171  
     Telegraphic Reports in Colorado, 405†, 437  
     Trespassing, State Laws on, 804  
     Trolley Cars, 77, 1189  
     What Are Railroad Accidents, 369†  
 Accounting (See also Association of American Railway Accounting Officers):  
     Auditing System, B. & M., 491†, 501\*  
     Central Bureau Created, 99  
     Depreciation, G. C. Hand and J. Krutsch-schnitt on, 1035, 1116‡  
     Depreciation in Annual Reports, 1062†  
     Reports, Unnecessary, in War Time, 378, 405†, 992, 1155†, 1182  
     Vouchers Used on the L. & N., 425\*  
     Waybilling, Interline, 588†, 609\*, 1011†, 1049  
 Adamson, William C.:  
     Eight-Hour Law Results, 255, 1061†  
     Government Ownership Condemned, 817  
     Resignation from Congress, 561, 1142  
 Advertising:  
     Eight-Hour Law Results, 255, 1061†  
     Film, Use of the, 379  
     Liberty Loan, 477, 652  
     Western Railway Club Drops Advertising, 49†, 178‡  
 Woolley, Edward Mott, on, 2†  
 Agriculture (See also Railway Development Association):  
     Cars for Farm Products, 28  
     Farmer and Railroad as Partners in Industry, 685  
     Farmers, Wheat Prices and Freight Rates, 93†, 545†  
     Gardens, War, on the Pennsylvania and New York Central, 334\*  
     Illinois Central Wildwood Farm, 186\*  
     Market-Train Service Discussed, 339  
     Peach Shipments; N. Y. C., 772  
 Ashton, R. H.:  
     Press Praised, 710  
     Railroads Not Only Industry Pressed by War Demands, 1049  
     Record Traffic Handled, 993  
 Atchison, Clyde B., Appointed to Interstate Commerce Commission, 597\*  
 Alabama Great Southern: How Safety Medal Was Won, 160  
 Alaska Northern, Progress on, 161, 575  
 Albania, The First Railroad in, 429\*  
 American Association of Dining Car Superintendents:  
     Meat Savings in, 953  
     Rules for Conservation of Food on Dining Cars, 121  
 American Association of Passenger Traffic Managers: Slacker States, Map of, 952\*, 1061†, 1067‡  
 American Car and Foundry Company: Annual Report, 86  
 American Electric Railway Association: War Board, 907  
 American Foundrymen's Association: Annual Convention, 482  
 American Institute of Mining Engineers: Transverse Fissures in Steel Rails, 996  
 American Library Association: Reading Matter for Soldiers, 68  
 American Locomotive Company:  
     Annual Report, 401  
     Denver & Rio Grande Santa Fe Type, 189\*  
     Illinois Central, 2-10-2 Type, 107\*  
     New York Central 4-8-2 Type, 1167\*  
     Wabash, 2-10-2 Type, 1025\*  
 American Railway Association:  
     Car Surpluses and Shortages, 117, 133†, 303, 538, 769, 1146  
     Mileage Allowance on Refrigerator Cars, 358  
     Transportation of National Army to Training Camps, 333, 415  
 American Railway Bridge and Building Association: Annual Convention, 703  
 American Railway Engineering Association:  
     Convention in March, 544†, 730†  
     Docks and Wharves, Design of, 421\*  
     Impact Formula for Bridge Design, 177‡\*, 635‡

American Railway Engineering Association (Continued):  
     Nominations for Officers, 1192  
     Rail Failure Statistics for 1916, 811  
     Southern Pine, Decay Resistance of, 888  
 American Society of Mechanical Engineers:  
     Metal Alloys Used in Locomotives, 424  
 American Society for Testing Materials: Annual Meeting, 13\*  
 American Steel Foundries: Simplex Clasp Brake, 475\*  
 American Wood Preservers' Association: Statistics for 1916, 110  
 Amster, Nathan L.: Government Loan to the Railways, 407†  
 Anderson, George W., Appointed to Interstate Commerce Commission, 597\*  
 Annual Report (See also names of companies; also Interstate Commerce Commission):  
     Standard Form Suggested, 1062†  
 Anthracite Shipments in October, 902  
 Apprentice (See Education)  
 Appropriation Bill, Deficiency, 566, 619, 666  
 Army (See War)  
     Ash Pan, Commonwealth Cast Steel, 709\*  
     Aspinwall, Sir John A. F., a Knight, 76  
 Associated Business Papers: Ashton, R. H., Praised Press, 710  
 Associated Railroads of Pennsylvania and New Jersey: Report of O'Donnell Full-Crew-Law Committee, 465  
 Association of American Railway Accounting Officers:  
     Accounting Requirements During the War, 378  
     Annual Meeting, 587†, 588†, 609\*  
     Mechanical Devices and Statistical Data, 1153†, 1182  
     War Tax, Instructions for Applying, 761  
     Waybilling, Interline, 588†, 609\*, 1011†, 1049  
 Association of Manufacturers of Chilled Car Wheels:  
     Annual Meeting, 770  
     Mechanics of Chilled Iron Wheel, 157  
 Association of Railway Claim Agents: Committee on Restoration and Employment, 361  
 Association of Railway Telegraph Superintendents: Annual Convention, 987, 1012†  
 Association of the 11th U. S. Engineers, 1070  
 Atchison, Topeka & Santa Fe:  
     Annual Report, 782†, 824  
     Apprenticeship System, By-Products of the, 245, 263†  
     Bonus for Employees, 76  
     Car, Tank, 467\*  
     Freight Claim Payments, Campaign to Reduce, 551\*  
     Railroading in Time of War, 396  
     Ripley, E. P., on Minimum Carload Weights in Kansas, 176†, 324†, 327†  
     Salvaging Rolling Stock on Fallbrook Branch, 461\*  
     "Service Stripes" on Freight Cars, 434  
 Atlantic Coast Line:  
     Strike of Clerks, 1001, 1024  
     Train Load, Increasing the, 201\*  
 Atterbury, W. W., Appointed Director General of Transportation, 513\*, 619  
 Auditing (See Accounting)  
 Australian Government Officials in America, 446†, 620  
 Australian Transcontinental Line Completed, 1187\*  
 Automatic Air Dump Car, 234\*  
 Automatic Stop (See Signaling)  
 Automatic Straight Air Brake Company:  
     Brake System, New, 697\*  
     Incorporation, 488  
 Automobile:  
     Crossing Accident and Responsibility of Passengers, 400, 445†  
     Fords on the C. B. & O., 852\*  
     Freight by Trucks from Detroit, 1147, 1190  
     Loading and Shipping, 166  
     Moreland Auto-Rail Truck, 1188\*  
     Record Runs, 251, 953  
 Aviation:  
     Mail Routes Proposed, 574  
     Record Flights, 575, 769, 1002, 1095  
 B  
 Baldwin Locomotive Works:  
     Johnson, A. B., on Production, 1055  
     U. S. A. War Locomotives, 295\*, 645\*  
 Balkwill Manganese Crossing Company: Crossing, Sectional Manganese, 949\*  
 Baltimore & Ohio:  
     Accident near Irving, W. Va., 396  
     Annual Meeting of Officers, 24  
     Annual Report, 265†\*  
     Bridge, Old Stone Arch, 278\*  
     Car for Medical Examiners, 236\*  
     Car Loading Machine at Locust Point Pier, 1033\*  
     Cars, Refrigerator, 981\*  
     Chief Clerks' Association, 120  
     Fire at Locust Point, 815  
     Fuel Records, 1112†, 1131\*  
     Power Plant Supervision, 663\*

Baltimore & Ohio (Continued):  
     Stationery, Savings in Use of, 350  
     Stoker Operation, 513  
 Bangor & Aroostook: Rate Hearing, 1149  
 Bankers' Railway Bulletin: September Issue, 620  
 Barge (See Water Service)  
 Barns, Cow; B. & A., 284\*  
 Barrel (See Freight)  
 Belgium: Locomotives Given to General Pershing, 1069\*  
 Belnap, H. E.: Report of James E. Howard on Rail Failure on the Pennsylvania, 292\*  
 Belt Railway of Chicago: Pneumatic Tubes at Clearing Yard, 192\*  
 Bethlehem Chile Iron Mines Company: Electrified Line, 384\*  
 Bill (See Legislation)  
 Bill of Lading (See Freight)  
 Block Signal (See Signaling)  
 Bolster (See Truck)  
 Bonney Supply Company: Loader, Rapid, 812\*  
 Bonus (See Employee)  
 Book Umbrella, Dayton, 702\*  
 Boston & Albany:  
     Cow Barns at Brighton Stock Yards, Boston, 284\*  
     Locomotives, Consolidation Type, Converted Into Light-Wheel Switchers, 235\*  
     Pensions in 1895, 575  
 Boston & Maine:  
     Annual Report, 1014†\*  
     Auditing System, 491†, 501\*  
     Comforts for Men in the 14th Railway Engineers, 907  
     Safety Appliance Act—Government Suit, 733, 831†  
     Soldiers' Fares, 909  
     Transportation to Camp Devens, 759\*, 1052  
     Strike of Shopmen and Others, 433, 477, 814, 903, 953  
 Brake:  
     Automatic Air Brake System, 697\*  
     Leakage, Train, Tested, 564\*  
     Simplex Clasp, 475\*  
 Brazil: Pulverized Coal Tests, 767\*  
 Bridges and Buildings (See also American Railway Bridge and Building Association; also Construction, New; also Station; also Yards and Terminals):  
     Arch Bridge at Gwynn's Falls; B. & O., 278\*, 358  
     Barns, Cow, B. & A., 284\*  
     Chesapeake & Ohio Bridge at Sciotoville, 453\*  
     Chicago, St. Paul, Minneapolis & Omaha Bridge Across Chippewa River, 879\*  
     Delaware, Lackawanna & Western Viaduct at Clark's Summit, 25\*  
     Elevator at Erie; Penn., 1102  
     Impact Formula, New, 177†\*, 635‡  
     Locomotive Weight and Bridge Stress, 264†  
     Pitts., Cin., Chic. & St. Louis Freight House at Indianapolis, 69\*  
     Platte River Bridge, C. B. & O., 183\*  
     Quebec Bridge Completed, 533, 543†, 569\*  
     St. Joseph, Mo., Bridge Reconstructed, 74\*  
 Bristow, Joseph L.: Testimony Before Newlands Committee, 1166  
 British Board of Trade:  
     Accidents in 1916, 477  
     Glasgow Subway Accident, 132†, 140  
 British Railways (See England)  
 Brooklyn Rapid Transit: Annual Report, 272†, 311  
 Brotherhood of Railroad Trainmen:  
     Members of Chicago Lodge Appeal for Protection of Membership Rights, 535  
     Ordnance Passed in Fort Worth, Tex., 406†  
     Strike of Yardmen in Chicago, 175†, 198, 219†, 832†  
     Wage Demands, 832†, 865, 866, 902, 917†, 953, 991, 1048, 1085\*, 1143  
 Brown, Edward L., 689\*  
 Brown System of Discipline, 4†, 19, 873†, 881, 967†, 985  
 Buckeye Steel Castings Company: Truck, Six-Wheel Articulated, 387\*  
 Buffalo, Rochester & Pittsburgh: "Shipping Days," 984  
 Bureau of Foreign and Domestic Commerce: Creosote Oil Imports, 1190  
 Bureau of Markets of the Department of Agriculture: Cars for Farm Products, 28  
 Bureau of Mines: Coal Mine Production, 1129  
 Bureau of Railway Economics: Freight Operations During April, 48†, 99; May, 241\*; June, 492†, 514; July, 676†, 696; August, 931; September, and for Six Months, 1112†, 1122  
 French Railroads Must Have Higher Freight Rates, 1014†, 1043  
 Libraries for Soldiers, 68  
 Returns for Calendar Year 1916, 550  
 Revenues and Expenses for May, 206, 220†; June, 447†, 480; July, 816; August, 875†, 906; September, 1002  
 Wages and Taxes in 1916, 562  
 Bureau of Railway News and Statistics: Government Ownership in South America, 75  
     September Income Below 1915, 1093  
 Bureau of Safety: Annual Report of, 1177  
 Byram, H. E., 498\*

## GENERAL INDEX—Continued

[Illustrated articles are indicated thus \*; Editorials thus †; Letters to Editor thus ‡.]

**C**  
 Calculator, A Composite, 182\*  
 California State Council of Defense: Petroleum, Report on, 79  
 Cambrai, American Engineers in Fight at, 1011†, 1029\*, 1069\*, 1138  
 Camp Devens, Transportation to; B. & M., 759\*, 1052  
 Camp, Embarkation, at Tenafly, N. J., 463  
 Camp Funston, Construction and Transportation Demands of; U. P., 450\*  
 Camp Grant, Engineering Regiments at, 999, 1070\*  
 Camp Upton, Transporting Troops to; L. I., 567\*  
 Canadian Overseas Railway Construction Battalion, 1st:  
     Building a Military Railway in No Man's Land, 432  
     Organization and Work of, 469  
 Canadian Pacific:  
     Car Loading, Heavier, 59\*  
     Educational Bulletin, 21  
     Employees Win Honors in War, 205  
     Empty Car Records Investigated, 383  
     Names of Battles for Stations, 1076  
     Tunnel, Rogers Pass, Data on, 474  
     Victory Loan Subscriptions, 903  
     Wage Increases, 574  
 Canadian Railway Association for National Defense, 710, 769, 1047  
 Canadian Railway Club:  
     Draft Gear Capacity, 893\*, 1068†  
     Locomotive Design from a Maintenance Standpoint, 683  
 Canadian Railway Problem, W. M. Acworth on, 50†  
 Canton Foundry and Machine Company: Crane, Portable, 18\*  
 Capital (See Finance)  
 Car:  
     Door Latch, Vestibule Trap, 249\*  
     Dump, Automatic Air, 234\*  
     Electric Lighting Equipment in Car Design, Providing for, 173†  
     Floor Insulation, Tucork, 203\*  
     Floor Plans for Postal Cars, 617\*  
     Hospital, Erie, 1083\*  
     Medical Examiners; B. & O., 236\*  
     Oil-Electric; N. C. & St. L., 381\*  
     Orders and Prices in 1917, 91†, 100  
     Private Car Use Curtailed During War, 1061†, 1100, 1190  
     Rivet Cutting Gun, 431\*  
     Scale Test; L. & N., 249\*  
     Testing, Rail; Pennsylvania, 413\*  
     Thrift Special; N. Y. C., 283\*  
     Wheel (See Wheel)  
 Car Conservation (See Car Service)  
 Car Foremen's Association of Chicago: Train Handling, 426  
 Car, Freight:  
     Box Car, Business of a, 1173  
     Coal, 120-Ton; Virginian Ry., 285\*  
     Draft Gear Capacity, 893\*, 1068†  
     Government Purchase of, Bill for, 452  
     Refrigerator; B. & O., 981\*  
     Slack Adjuster, Truck Lever Type, 950\*  
     Stock Cars, Standard Length for, 23  
     Summary of Cars in Service, 241\*  
     Tank; A. T. & S. F., 467\*  
     Truck, Buckeye Articulated, 387\*  
     U. S. A. for Service in France, 598\*, 645\*, 851\*  
 Car, Passenger (See Car)  
 Car Service (See also Commission on):  
     Car Conservation Meeting at Chicago, 155  
     Comparative Summary of Freight Cars in Service in 1915 and 1916, 241\*  
 County Officers Assist in Conserving Transportation, 959  
 Demurrage Suggestions of the National Industrial Traffic League, 931  
 Empty Car Distribution, 158, 289, 433, 525, 815  
 Empty Car Records; C. P., 383  
 Freight Car Requirements of a Railroad Determined, 355\*  
 Freight Car Situation, E. H. De Groot, Jr., on, 633†, 658  
 Freight Operations During April, 48†, 99; May, 241†; June, 492†, 514, 836†; July, 676†, 696; August, 930; September, and for Six Months, 1112†, 1122  
 Freight Traffic Statistics, 1908 to 1917, 370†  
 Government Purchase of Freight Cars, Bill for, 452  
 Handling Government Shipments, 145, 179\*, 207  
 Interchange, Contest on, 279, 745  
 Interchange System, Samuel G. Thomson on, 109, 785  
 I. C. C. Division on, 77, 92†, 105\*  
 Loading:  
     Automobile Shipments, 166  
     Canadian Pacific's Methods, 59\*  
     Chicago, Burlington & Quincy's Report, 300  
     Circular Appeals, 28, 38, 39, 47†, 92†, 139, 166, 483, 813  
     Containers, Stronger, Needed, 411‡  
     Cotton; So. Pacific, 1188\*  
     Foodstuffs, 910  
     Freight Rates Reduced for Loading Above Minimum Carload, 922†

Car Service—Loading (Continued):  
     Fruits and Vegetables, Bulletin on Increased Loading of, 350  
     Interstate Commerce Commission's Appeal, 47†, 92†  
     Minimum Carloads in Kansas, E. P. Ripley on, 176†, 324†, 327†  
     Minimum Weights and the Shippers, 408†  
     Pennsylvania's Methods, 57\*  
     Photographing Damaged Freight, D. L. & W., 855\*  
     Railway Business Association's Performance Record Blanks, 1†, 27\*, 338  
     Shippers' Co-Operation, 369†, 378, 398  
     Southern Pacific's Competition, 61, 815  
     Transfer, Unnecessary, 546†  
 Mileage:  
     Average for 1916, 550, 562  
     Canadian Pacific Empty Car Mileage, 1907 to 1916, 383  
     El Paso & South Western Figures for May, 392  
     Kansas City Southern—Average Miles Per Car Per Day, 652  
     Per Cent of Cars on Line and Average Miles Per Car Per Day, 175†  
     Refrigerator Cars, Allowance on, 358  
     Revenue Ton Miles Per Car and Locomotive, 1915 to 1917; So. Pacific, 999\*  
     Ton Miles Handled Per Freight Locomotive and Per Freight Car, 370†  
     Perishable Terminals Needed, 1117†  
 Pooling:  
     Cars at Freight Houses, 120  
     Coal Shipments, 146  
     Eastern Lines, 969†, 973, 1031, 1081, 1175  
     Joint Ownership of Freight Cars, 280  
 Reconsignment Privilege Contest, 370†, 445†, 831†, 837, 889, 977  
 Reconsignment Stopped in Philadelphia, 909  
 Rules, Proposed, 279, 281, 745  
 Shortage, Freight Car:  
     Allies Should Use Southern Ports, 134†, 223†, 1084  
     Circular Appeals, 159, 298  
     Clark, Edgar E., on, 263†, 276  
     Coal and Other Commodities, Prices of, 132†  
     Conservation Meeting at Chicago, 155  
     Discrimination, Reciprocal, 446†  
     Percentage of Cars on Line and Average Miles Per Day, 175†  
     Reports to the A. R. A., 48, 117, 133†, 303, 538, 769, 1146  
     Shippers' Co-Operation, 38, 39  
     Weekly Car News; S. A. L., 813  
 Car Shortage (See Car Service)  
 Census (See Employee)  
 Central of Georgia: Liberty Loan Appeal, 702  
 Central Railway Club: Brake Pipe Leakage and Compressor Capacity, 564\*  
 Central Railway of Brazil: Pulverized Coal Locomotives, 767\*  
 Chamberlin, Edson J., 419\*  
 Chesapeake & Ohio: Bridge at Sciotoville, Ohio, 453\*  
 Chicago:  
     Car Conservation Meeting, 155  
     Committee on Car Service, Meetings of, 484, 579, 624  
     Erie Barge and Car-Float Service, 809\*  
     Public Ownership Conference, 1048  
     Strike of Yardmen of B. of R. T., 175†, 198, 219†  
 Chicago & Alton:  
     Discipline, System of, 19  
     Examiner in Rules, 903  
     Interlocking Plant at Corwith, 152\*  
     Liberty Bond Subscriptions of Alien Employees, 865  
 Chicago & Eastern Illinois:  
     Automatic Stop System, Miller, 822  
     Freight Damages, Reducing, 1095  
     Jackson, W. J., on Advances in Coal and Coke Rates, 123  
     Locomotives Converted from Freight to Switch, 799\*  
     Station at Danville, Ill., 375\*  
 Chicago & North Western:  
     Coal Traffic in Illinois, 361  
     Handling of Foreign Cars, 160  
     Organization for Efficiency, 146  
     Pensions of Enlisted Men, 159  
     Social Service Bureau for Soldiers, 1183\*  
     Troop Transportation from Fort Sheridan, 250  
 Chicago, Burlington & Quincy:  
     Accident near Earllville, Ill., 535  
     Annual Report, 270†\*, 314  
     Bridge, Platte River, 183\*  
     Car Loading Efficiency Increased, 300  
     Chalco-Yutan Cut-Off, 183\*  
     Discipline System, 21  
     Dividend, Extra, 264†  
     Fords for Division Superintendents, 852\*  
     Inspection of Perishable Freight, 1196\*  
 Chicago Great Western: Passenger Train Service Reduced, 938

Claims:  
 Grain Claim Hearing of the I. C. C., 140  
 Loss and Damage:  
     Chicago & Eastern Illinois, 1095  
     Package Freight Loss, 1149  
     Payments Reduced; A. T. & S. Fe., 551\*  
     Payments Reduced; L. A. & S. L., 477  
     Personal Injury Fakir Trapped, 205  
     Reducing Errors in Handling L. C. L. Freight; No. Pacific, 114\*  
 Cleveland, Cincinnati, Chicago & St. Louis: Motor Truck Service, 427\*  
 Coal (See Fuel)  
 College Men (See Officer)  
 Colorado & Southern: Annual Report, 271†\*, 319  
 Commercial Board of Los Angeles: Patriotism and Transportation, 1039  
 Commercial Possibilities of the South, 587†  
 Commission on Car Service:  
     Car Efficiency Circulars, 139, 483  
     Car Shortage Reduced, 117, 133†, 303, 538, 769, 1146  
     Chicago Car Conservation Meeting, 155  
     Chicago Committee, Meeting of, 484, 579, 624  
     Committee, Local, 207  
     Cotton Crop, Transporting the, 661  
     Freight Car Distribution, 158, 289, 433, 525  
     Live Stock, Avoid Killing, 770  
     Loading of Fruits and Vegetables, 350  
     Pooling Cars at Freight Houses, 120  
     War Supplies, Handling, 145, 179\*, 207  
 Committee (See War; also Railroads' War Board)  
 Commonwealth Steel Company: Pilot and Ash Pan, 709\*  
 Commonwealth Supply Company: Lewis Power Reverse Gear, 1184\*  
 Competition (See Contest)  
 Concrete:  
     Calculator, Composite, 182\*  
     Hydrated Lime, Influence of, 456  
     Sands, Effects of Grading of, and Consistency of Mix, 14\*  
     "Conference Committee on National Preparedness," Prediction of, 730†  
 Congestion (See Freight)  
 Conservation of Coal, 324†  
 Conservation of Material, 853, 921  
 Conservation of Transportation (See Car Service)  
 Construction, New (See also Bridges and Buildings; also Station; also Yards and Terminals):  
     Alaskan Northern, Progress on, 161, 575  
     Australian Transcontinental, 1187\*  
     Belt Line Around St. Paul, 97\*  
     Chicago, Burlington & Quincy Chalco-Yutan Cut-Off, 183\*  
     Chicago, St. Paul, Minneapolis & Omaha Hannibal Line Cut-Off, 879\*  
     Cost of Helper Service, 173†  
     Military Railways, 432, 469  
     New York Connecting Railroad, 135\*  
     Southern Railway Double Track Between Washington and Atlanta, 833†, 841\*  
     Union Pacific in Eastern Utah, 329\*  
 Container (See Freight—Barrel)  
 Contest:  
     Brown's Discipline, 4†, 873†, 881, 967†, 985  
     Car Interchange, 279, 745  
     Increasing the Train Load, 63\*, 201\*, 347, 457  
     Loading Competition; So. Pacific, 61  
     Reconsignment Privilege, 370†, 445†, 831†, 837, 889  
 Co-Operation of Public, Records of, 353  
 Co-Operation of State Commissions, Samuel Rea on, 680  
 Co-ordinating Committee on Exportation Organized, 518  
 Co-ordinating All Transportation Agencies, 1111†  
 Correspondence (See Organization)  
 Cost of Cars and Locomotives in 1916 and 1917, 91†, 100  
 Cost of Handling Tonnage in Way Freight Trains, 384\*  
 Cost of Helper Service, 173†  
 Cost of Materials, Increased, 206, 706  
 Cost of Production, Regulating, 1068†  
 Council of Defense of Illinois: Coal Prices and Car Shortage, 132†  
 Council of National Defense: Conservation of Transportation, 145

## RAILWAY AGE—Index

County Home Defense Committees of New York:  
Post-card Notices to Delinquent Shippers, 959  
Court News (See Legal Decisions; also page 831†)  
Courtesy (See Employee)  
Cow Barns; Boston & Albany, 284\*  
Crane (See Hoisting and Conveying)  
Credit (See Finance)  
Creosote Oil Imports in 1917, 1190  
Creosote Treatment (See Ties and Timber)  
Crossing (See Grade Crossings; also Track)

## D

Dayton Book Umbrella, 702\*  
Delaware & Hudson: Employees in Colonie Shops Organize to Aid Men in Service, 878†  
Delaware, Lackawanna & Western:  
Automatic Train-Stop, Wooding's, 471\*  
Electro-Mechanical Interlocking Plant at Buffalo, N. Y., 789\*  
Photographing Damaged Freight in Cars, 855\*  
Viaduct at Clark's Summit, 25\*  
Demurrage (See Car Service)  
Denver & Rio Grande:  
Flood Damages, 62\*  
Locomotives, Santa Fe Type, 189\*, 264†  
Denver, Laramie & Northern: Abandonment of Part of Line, 580  
Denver Tourist and Publicity Bureau, 864  
Department (See Organization; also United States)  
Depreciation (See Accounting; also Valuation)  
Development of New Devices, 1†  
Development of South, 587†  
Despatching (See Train Despatching)  
Devices, New, Development of, 1†  
Dining Car Savings, 953, 1193  
Dining Car Waste, 47†, 121, 328‡, 546‡, 634‡, 636‡, 835‡  
Discipline (See Employee)  
Discounts (See Employee—Courtesy)  
Dock (See Piers)  
Dodds, Ethan J.: Light, "Cold Stored," 431\*  
Douglas Fir Piles, Creosote Treatment of, 657\*  
Draft Exemption (See War)  
Draft Gear Capacity, L. E. Endsley on, 893\*, 1068†  
Draftswoman (See Employee—Women)  
Dragline (See Hoisting and Conveying)  
Drumm Construction Company: Pere Marquette Freight House, 225\*  
Deuel, B. F.: Rail and Tire Contour Recorder, 293\*  
Dunn & McCarthy Company: Hydrated Lime in Concrete, 456

## E

Earling, A. J., 499\*  
Earnings (See also Revenues and Expenses; also Finance)  
Economic Practices:  
Fuel Economy and Locomotive Operation, 369†  
Stationery, Use of; B. & O., 350  
Time Tables, 675†  
Economic Devices Corporation: Merger with Franklin Railway Supply Company, 1055\*  
Economiste Francais: French Railroads Must Have Higher Freight Rates, 1014†, 1043  
Economy Devices Corporation: Ragonnet Reverse Gear, Type "B," 900\*  
Education:  
Apprenticeship System, By-Products of an; A. T. & S. Fe., 245, 263†  
College Men's Future in Railroad Service, 393  
College Men Versus Experienced Men, 224†  
Committed to Educate Disabled Employees, 204  
Employment of Labor, 391  
Initiative, Developing, 222†, 327†  
Pennsylvania's Frank Thomson Scholarships, 299  
School for Women: St. L.-S. F., 361  
Efficiency (See Operating Efficiency; also Organization; also Equipment and Supplies; also Employee)  
Electric Arc Welding, 753  
Electric Car & Locomotive Corporation: Oil-Electric Motor Car, 381\*  
Electric Interlocking (See Signaling)  
Electric Lighting (See Lighting)  
Electric Locomotive (See Locomotive)  
Electric Railways Organize to Handle Freight, 1004, 1048  
Electric Railways' War Board, 907  
Electric Tie Tamers; N. Y. C., 17\*  
Electric Tractors at New York; Penna., 199\*  
Electric Truck (See Truck)  
Electrification:  
Chicago, Milwaukee & St. Paul, 815  
Japanese Railways, 792\*  
Pennsylvania Locomotive Tested, 606\*  
South American Line, 384\*  
Elliott, Howard:  
Government Ownership, 815  
Labor and Accidents, 520  
Legislation, Vicious, Defeating, 30  
Suggestions for Practical Patriotism, 1038  
El Paso & Southwestern: Car and Locomotive Mileage Figures, 392  
Embargo (See Freight)  
Embarcation Camp at Tenafly, N. J., 463

Embarkation Service Created, 359  
Employee (See also Education; also Officer; also Legal Decisions):  
Bonus; A. T. & S. Fe, 76  
Bonus; I. R. T., 433, 814  
Census of Employees in Government Service, 251, 953  
Courtesy to Passengers, 93†, 219†, 446†, 634†, 636†  
Despatcher (See Train Despatching)  
Discipline, Brown's, 4†, 19, 873†, 881, 967†, 985  
Discipline and Whistling, 96†, 408‡  
Discipline in the Yard, 1164  
Discipline—The Weary and Untruthful, 780†, 784†  
Dishonesty in Reporting Delays, 409‡  
Draft, Exemptions from, 23, 180, 251, 536, 968†, 1067‡, 1114†  
Efficiency Placard; L. V., 359  
Enlistments on Railways, 1047  
Foreign-Born Subscribers to Liberty Loan; Pennsylvania, 577  
Full-Crew Law in New Jersey, 359, 465, 668, 873†, 896, 971†  
Furloughs for Military or Naval Service; Pennsylvania, 61  
Gardens, War, 334\*  
Illinois Central Trainmen Missionaries of Public Opinion, 131†, 154, 412‡  
Illinois Central Wildwood Farm, 186\*  
Labor, Employment of, 391  
Labor from Porto Rico, 120  
Labor Shortage in the Yard, Remedy for, 1164  
Labor Situation and Unproductive Work, 676†  
Labor Vote, Power of the, 408‡  
Liberty Loan (See Liberty Loan)  
National Guard Company, C. M. & St. P., 476  
Pass Privilege in War Time, 121, 299  
Pass Rules: C. R. I. & P., 1146  
Pensions:  
Boston & Albany in 1895, 575  
Chicago & North Western for Men in Military Service, 159  
New York Central's Ruling, 575  
Promotion, Letters for; Erie, 633†  
Smith, A. G., Awarded Damages from Brotherhood, 476

Strike:  
Atlantic Coast Line Clerks, 1001, 1024  
Boston & Maine, 435, 477, 814, 903, 953  
Elgin, Joliet & Eastern Switchmen, 619, 666  
Freight Handlers at Kansas City, 477, 535, 574  
Georgia, Florida & Alabama, 250  
Great North Western Telegraph Co., 574, 619  
Pennsylvania Telegraphers, 619, 865  
Southern Pacific, 251  
Switchmen in Chicago, 817  
Yardmen in Chicago, 175†, 198, 219†  
Thriff Encouragement, 739  
Tobacco for Men in France; Pennsylvania, 536  
Wages:  
Average Wage in 1916, 562  
Brotherhood's New Demands, 832†, 865, 866, 902, 917†, 953, 991, 1048, 1085\*, 1143  
Chicago, Rock Island & Pacific Telegraphers, 769  
Differential Rates of Pay, 705  
Eight-Hour Law, William C. Adamson on, 255, 1061†  
Great Britain, 79  
Increases in, 34, 76, 159, 250, 251, 358, 433, 476, 535, 574, 619, 666, 710, 814, 865, 903, 953, 1002, 1047, 1095, 1143, 1189  
Maximum Pay During War, 1068‡  
Shon Crafts Federate, 1049  
Sliding-Scale System, 420  
Southeastern Shop Employees' Controversy, 251, 395  
War Service Records, 434, 769, 770  
Women:  
Draftswoman, The, 49†  
New York Central Scrap Handlers, 121, 197\*  
Pennsylvania Railroad's Number, 205, 923\*  
Problems in the Employment of, 174†, 323†, 405†  
Results of Employment on Various Roads, 923\*, 989\*  
School for; St. L.-S. F., 361  
Workmen's Compensation Laws, 240  
Employment Department (See Organization)  
Engineering Council: First Meeting, 80  
Engineering Recruits (See Railway Regiments)  
Engineering Students Exempt from Draft, 1114†  
England:  
Accidents in 1916, 477  
British Railways Under Government Control, 1118  
Coal Handling Scheme, 244\*  
Industrial Unrest, 1047  
Wages of Employees, 79  
Women, Employment of, 924  
Enlistment (See Employee)  
Equipment and Supplies:  
Buying, Care in, 1064†  
Cars and Locomotives in Service on June 30, 1916, 237  
Efficiency, Increased, to Win War, 263†, 274\*, 323†

Equipment and Supplies (Continued):  
Efficiency, Increased on So. Pacific, 999\*  
Electrical Equipment in Car Design, 173†  
Exports in 1917, 260  
Freight Cars in Service in 1916, 241\*  
Labor Saving Equipment, 530, 1064†  
M. C. B. Letter Ballot Results, 523\*  
Material, Conservation of, 853  
Material for Construction Work in France, 207, 219†  
Material for the Mechanical Department, 590†  
Material for Track Work, 528  
Materials, Priority Regulations for, 805\*  
New York Central's Expenditures, 815  
Orders, Government, 91†, 100  
Prices of Cars and Locomotives in 1916 and 1917, 91†, 100  
Rolling Stock, Salvaging; A. T. & S. Fe, 461\*  
Rolling Stock Valuation, 132†, 141  
Steel for Cars and Locomotives a War Necessity, 30  
U. S. A. for Foreign Service, 295\*, 445†, 598\*, 645\*, 851\*  
Eric:  
Barge and Car-Float Service at Chicago, 809\*  
Car, Hospital, 1083\*  
Employees' Letters for Promotion, 633†  
Pass Privilege in War Time, 299  
Evansville & Indianapolis: Rate Fixing by Court, 811  
Exemption (See Employee—Draft)  
Exhibit (See names of associations)  
Expenses (See Revenues and Expenses)  
Expert (See Officer)  
Explosives, Licenses to Use, 906  
Export (See Traffic; also Iron and Steel; also Equipment)  
Export Division of the General Operating Committee of the Eastern Railroads, 1023  
Express Companies Ask Higher Rates, 959, 1004, 1103

## F

Fair Return (See Finance)  
Farming (See Agriculture)  
Federal Board of Mediation and Conciliation, Report of, 1100  
Federal Incorporation, S. Davies Warfield on, 907, 918†, 1115‡  
Federal Regulation (See Government Regulation)  
Felton, S. M.:  
Appointed Director General of Railways, 160  
Russian Railway Service Corps, 933  
Track Work for U. S. Army in France, 975  
Film (See Motion Pictures)  
Finance (See also Society of Railway Financial Officers; also Accounting; also Revenues and Expenses):  
Capitalization of Railway Property on June 30, 1916, 237  
Chicago, Burlington & Quincy's Extra Dividend, 264†  
Credit of Railroads Analyzed, 897  
Earnings and Prices of Commodities, 132†  
Fair Return for Public Utilities, What Is a, 335\*  
Federal Incorporation Opposed, 907, 918†, 1115‡  
Income and Taxes in September, 1093  
Income Tax in War Revenue Bill, 193, 229  
Liberty Loan (See Liberty Loan)  
Missouri, Kansas & Texas and St. Louis-San Francisco Compared, 492†\*  
Missouri, Kansas & Texas Denied Additional Receiver, 718  
Missouri, Kansas & Texas Reorganization, 448†  
Loan, Government, Effects of a, 407†  
Operating Income and Rate of Return on Railway Investment, 1155†  
Operating Income, 1891 to 1917, 1018  
Pennsylvania Railroad Consolidation, 1058†, 1011  
Profits and Melons, Some Views on, 589†  
Rate of Return in 1917, 1155†  
Securities, Federal Regulation of, 508  
Securities, Shrinkage of, 891, 917†  
Security Owners' Interests, Protecting, 833†  
Statistics of Class I Roads for January to May, 1917, 220†  
Statistics for Year Ended December 31, 1916, 550, 562  
Statistics for Year Ended June 30, 1916, 237, 263†  
Stocks Now and in July, 1914, 405†, 917†  
Tax Law, War, 37, 56, 193, 229, 291, 416, 451, 607, 761, 903  
Taxes Lower September Income, 1093  
Firebox (See Locomotive)  
Fires (See also Railway Fire Protection Association):  
Baltimore & Ohio at Locust Point, 815  
Fireproofing Wooden Roofs, 705  
Lehigh Valley Fire Marshal, 814  
Miscellaneous, 34, 159, 204, 250, 535, 814, 865, 1001, 1095  
Prevention Suggestions, 816, 1093  
Southern Pacific Fire Protection Campaign, 1047  
Watchmen, Inefficient, 1191  
Flood Damages; Denver & Rio Grande, 62\*

## GENERAL INDEX—Continued

[Illustrated articles are indicated thus \*; Editorials thus †; Letters to Editor thus ‡.]

- Foley, T. J.:  
Speed Laws Hamper Efficiency, 798  
Trainmen As Missionaries of Public Opinion, 131†, 154, 412‡  
Food Administration and Railways Co-operate at Chicago, 1901  
Formula, New Impact, 177‡\*, 635‡  
Fort Worth, Tex.: Ordinance Passed at Instance of B. of R. T., 406†  
France:  
American Engineers in Fight at Cambrai, 1011†, 1029\*  
American Railway Engineering Work, 207, 219†, 432, 469, 562, 851, 939\*, 1011†  
American Railway Regiments (See Railway Regiments)  
Freight Rate Advances Proposed, 1014†, 1043  
Railroads in Fine Trim, 395  
Track Standards for U. S. Army, 975\*  
U. S. A. Equipment for Military Lines, 295\*, 445†, 598\*, 645\*, 851\*  
Franklin Railway Supply Company, Inc., Organized, 1055\*  
Freight:  
Barrels, the Best Containers, 50‡, 411‡  
Bills of Lading, National Industrial Traffic League on, 932  
Congestion—General Operating Committee's Orders, 910, 1023, 1136  
Congestion, Lessons from the, 153  
Congestion Remedied by Using Southern Ports, 134†, 223†, 1084  
Crane, Portable, 18\*  
Electric Trucks for Handling, 1039\*  
Embargoes, 304, 537, 669, 908, 909, 958, 1022, 1193  
Hawkins, C. L.; Pennsylvania, 16  
Invoices, Handling; L. & N., 425\*  
Loss and Damage (See Claims)  
Perishables Inspected, C. B. & O., 1186\*  
Photographing Damaged Freight in Cars; D. L. & W., 855\*  
"Sailing Days" for L. C. L. Freight, 16, 577, 688, 729†, 910, 984  
Storage Facilities Needed, 145, 207, 1181  
Tractors, Electric; Pennsylvania, 199\*  
Transfer Facilities at New York Piers, 240  
Waybill Envelope for Government Shipments, 179\*  
Waybill Forms in Boston & Maine Auditing System, 491†, 501\*  
Waybilling, Through Interline, 588†, 609\*, 1011†, 1049  
Freight Car (See Car, Freight)  
Freight Claims (See Claims)  
Freight House (See Yards and Terminals)  
Freight Operations (See Car Service)  
Freight Rates (See also State Commission Rulings)  
Advance Rate Case:  
I. C. C. Decision, 3†, 5, 50‡, 82, 167, 178‡  
Rea, Samuel, on Decision, 35  
Patterson, George S., Testimony of, 858, 9711  
Reopening and Hearings, 757, 808, 834†, 859, 890, 941†, 971‡  
Schaff, Charles E., on Decisions' Effect on Southwestern Lines, 99  
Smith, A. H., on Decision, 35  
Theelen, Max, on Decision, 676†, 874†, 877‡  
Average Rate Lowest on Record, 263  
C. F. A. Class Scale Rates, 82  
Coal and Coke in Illinois and Indiana, 123  
Coal, Bituminous, Rates Reduced, 33  
Commodity Rate Increases Asked, 717  
Discrimination, Reciprocal, 446†  
Evansville & Indianapolis Allowed Increases by Court, 811  
Farmers and Government Regulation, 93†, 545†  
French Railroads' Proposed Advances, 1014†, 1043  
Georgia, Proposed Reductions in, 1150  
Government Ownership and Rate Fixing, 328‡  
Increased Rates for Adequate Service, 394  
Intermountain Rate Controversy Before Newlands Joint Committee, 875†, 885  
Japanese Railways, 648  
New England, Increases in, 892, 967†, 1004, 1012†, 1149  
Reduced Rates for Car Loading Above Minimum, 922‡  
Tariff Filing, New Law on, 290, 352, 399, 625, 660, 689, 757, 808, 1053  
Transcontinental Rate Case, 147, 174†, 819, 875†, 885  
Freight Traffic (See Traffic)  
Friction Draft Gear Capacity, 893\*, 1068‡
- Fuel:  
Baltimore & Ohio Records, 1112†, 1131\*  
Coal:  
Anthracite Shipments in October, 902  
Coaling Plants and Fuel, 993  
Conserve the Supply, 324‡  
Consumption in 1916, 250  
Deterioration During Storage, 729‡  
England's New Restrictions, 244\*  
Price and Car Shortage, 132†  
Prices Fixed, 33, 355, 397  
Priority for, 300, 351\*, 452, 518, 691, 807, 891, 992, 1032, 1084, 1141

- Fuel (Continued):  
Production Statistics, 692, 717, 757, 959, 968†, 992, 1112†, 1129, 1142, 1191  
Pulverized, Hazards in the Storage of, 644  
Situation, Notes on, 324†, 668, 1103  
Situation, Truth About the, 968†, 1112†, 1115‡  
Station (See Station)  
Storage of, 111  
Tests of Various Grades for Use in Locomotive Service, 51\*  
Traffic Movement, Figures of, 324†, 352, 518, 717, 902, 927  
Traffic Records in Illinois, 361  
Transportation on the Ohio River, 667, 958  
Chicago, Rock Island & Pacific's Fuel Department, 103\*  
Creosote Oil Imports, 1190  
Economy and the Operating Department, 369†, 418  
Kerosene for Motor Cars, 116\*  
Petroleum, California, 79  
Full Crew Law (See Employee)  
Furlough (See Employee)  
Fusee (See Signaling).

## G

- Garden (See Agriculture)  
Gear, Lewis Power Reverse, 1184\*  
Gear, Type "B" Ragonnet Reverse, 900\*  
General Electric Company: Thermostatic Metal, 357\*  
Georgia, Florida & Alabama: Strike of Trainmen, 250  
General Operating Committee of the Eastern Railroads:  
Pool of Eastern Lines, 969†, 973, 1013], 1031, 1081, 1175  
Sub-committees and Their Instructions, 1072  
Work to Relieve Congestion, 1023, 1136  
General Railway Signal Company: Interlocking Plant at Corwith, Ill., 152\*  
Georgia & Florida: Coalting Station at Nashville, Ga., 1139\*  
Germany:  
Railways as Indemnities, 131‡  
Transportation Difficulties, 296  
Glasgow, Subway Accident, 132†, 140  
Glidden Company Formed, 1105\*  
Goodyear Tire & Rubber Company: Akron & Boston Express, 960  
Gould Coupler Company: Slack Adjuster for Freight Cars, 950\*  
Government Control:  
British Railways Under, 1118  
Efficiency Under, 1157†  
Harrison, Fairfax, on Opinions of Railroad Executives, 1013†, 1031, 1062†, 1073, 1100  
President Wilson Takes Over Railroads—Wm. G. McAdoo Appointed Director General of Railroads, 1155†, 1170  
Report of Commissioner McChord, 1062†, 1079  
Report of I. C. C. to Congress, 1013†, 1045  
Settlement of Problem Delayed; Coal Situation, 1140\*  
Thomson, Samuel G., on, 1081  
Traffic Manager's Appointment Urged, 1013†, 1075  
Government Ownership:  
Adamson, William C., on, 817  
Alaskan Railroad, 161, 575  
"Conference Committee on National Preparedness," Prediction of, 730†  
Elliot, Howard, on, 815  
Loan to the Railways Opposed, 407†  
Lord Northcliffe of England on, 473  
Markham, C. H., on, 449‡  
Mellen, Charles S., on, 1050  
New South Wales Officials in America, 446†, 620  
South America's Failure, 75  
Rate-Fixing Principles, 328‡  
Government Regulation:  
Federal Incorporation, S. Davies Warfield on, 907, 918†, 1115‡  
Hoboken Shore Railroad Taken Over, 37  
Newlands Joint Committee Investigation, 607, 661, 862, 875†, 885, 1085, 1111†, 1137, 1166  
Representative Commission Proposed, 1117‡  
State and Federal Laws Conflicting, 176†, 324†, 327†  
U. S. Chamber of Commerce Urges Exclusive Federal Regulation, 507  
Wheat Prices and the Farmer, 93†, 545†  
Grade Crossing:  
Accident at Midlothian, Ill., Blamed on Auto Driver; C. R. I. & P., 47†, 56  
Highway Construction Law in Illinois, 416  
Safety Laws in States, 804  
Signs in Connecticut, 120  
Grain Claim Hearing, I. C. C., 140  
Gran Trunk:  
Robb, W. D., Appointed Vice-President of the Mechanical Department, 406†, 442\*  
Safety First Bulletin, 1190  
Great Britain (See England)

- Great Northern:  
Snow Shed Construction, 1087\*  
Terminal Developments at Vancouver, 945\*  
Wage Increases, 250  
Gun (See War)  
Gindele, Charles W.: Station at Marshfield, Wis.; C. St. P. M. & O., 883\*

## H

- Haig, Field Marshal: American Railway Engineers Praised, 1138  
Halifax, Catastrophe, 1101, 1180\*  
Hand, G. C.: Depreciation of Railroad Property, 1035, 1116‡  
Harding, H. M.: Freight Transfer at New York Piers, 240  
Harrison, Fairfax:  
Freight Car Distribution, 525  
Government Operation of Railways Immortal, 1013†, 1031, 1062†, 1073, 1100  
Private Cars Limited, 1061†, 1100  
Railroads' War Board's Work, 12, 464  
Suggestions to the Public, 139  
Transportation Problems, 662, 1031  
Headlight (See Locomotive)  
Helper Service, Increasing Cost of, 173†  
Herbert, J. M., 463\*  
Highway Crossing (See Grade Crossing)  
Hill, Major Royland: Constructing a Military Railway, 432  
Highways Transport Committee:  
Motor Truck Use Promoted, 960, 967†, 1067‡  
Organization, 891  
Hoboken Shore Railroad:  
Government Operation of, 37  
Hoisting and Conveying:  
Car Loading Machine at Locust Point Pier; B. & O., 1033\*  
Crane, Portable, for Freight, 18\*  
Dragline Used in Track Depression; N. Y. C. & St. L., 653\*  
Leader, The Rapid, 812\*  
Shovel, U. S. A., 645\*  
Holt, W. F.: Moreland Auto-Rail Truck, 1188\*  
Hours-of-Service Reports in 1917, 1177  
Howard, James E.: Rail Failure on the Pennsylvania, Investigation of a, 292\*  
Hydrated Lime (See Concrete)

## I

- Illinois Central:  
Coalting Station at Effingham, 115\*  
Coal Traffic Records, 361  
Fares in Wisconsin, 1061†, 1067‡  
Farm, Wildwood, 186\*  
Locomotives, 2-10-2 Type, 107\*  
Markham, C. H., on, Government Ownership, 449‡  
Speed Laws and Efficiency, 798  
Trainmen As Missionaries of Public Opinion, 131†, 154, 412‡  
Illinois Manufacturers' Association:  
Rate Increase Favored, 910  
Transportation Director Urged, 1146  
Illinois Passenger Fare Case, 663  
Impact Formula for Bridge Design, 177‡\*, 635‡  
Income (See Finance)  
Incorporation Law (See Legislation)  
Indianapolis & Frankfort: Hydrated Lime in Structure, 456  
Indiana Harbor Belt: Pneumatic Tubes at Gibson Freight Yard, 192\*  
Initiative (See Officer)  
Insulation (See Car—Floor)  
Interchange (See Car Service)  
Interlocking (See Signaling)  
Intermountain Rate Controversy Renewed, 875†, 885  
International & Great Northern:  
Live Stock Killed on Right of Way, 477  
Wage Increases, 250  
International Conveyor Corporation: Car Loading Machine at Locust Point Pier; B. & O., 1033\*  
International Railway Fuel Association:  
Storage of Coal, 111  
Tests of Various Grades of Coal for Use in Locomotive Service, 51\*  
Interstate Commerce Commission:  
Accident Bulletin No. 62, 462  
Accident Report, B. & O. near Irving, W. Va., 396  
Accident Report: Southern Railway at Laramond, Va., 1171  
Annual Report, 1017  
Annual Report of the Bureau of Safety, 1177  
Annual Report of Chief Inspector of Locomotive Boilers, 1064†, 1077\*  
Car Loading Appeal, 47†, 92†  
Car Service Division, 77, 92†, 105\*  
Express Companies Ask Higher Rates, 959, 1004, 1103  
Freight Rate Advance Case Reopened, 757, 808, 834†, 859  
Government Operation of Railways During War, Report on, 1013†, 1045, 1062, 1073, 1079  
Grain Claim Hearing, 140

- Interstate Commerce Commission (Continued):**  
 Louisville & Nashville Officers Must Answer Questions, 849  
 New England Rate Hearings, 892, 967†, 1004, 1012†, 1149  
 Operating Income of Railways 1891 to 1917, 1018, 1155†  
 Photograph of, 941\*  
 Private Car Investigation Reopened, 1194  
 Reorganization Bill—New Members, 32, 228, 289, 544†, 587†, 597\*, 711  
 Representative Commission Proposed, 1117‡  
 Statistics for January to May, 1917, 220†  
 Statistics for Year ended December 31, 1916, 550, 562  
 Statistics for Year ended June 30, 1916, 237, 263†  
 Valuation, Government Position on, 599, 732†, 1123
- Interstate Commerce Commission Rulings:**  
 Bituminous Coal to Central Freight Association Territory, 211  
 Buffalo Grain Cases, 485  
 Campbell's Creek Railroad, 124  
 Car Peddling Case, 210  
 C. F. A. Class Scale Rates, 82  
 Coal to Southern California, 124  
 Conference Rulings, 304  
 Cotton, Uncompressed, to Memphis and St. Louis, 257  
 Duluth Rate Case, 485  
 Eastern Commodity Rate Case, 485  
 Embargoes on Grain at Baltimore, 40  
 Free Time at New York, 1005  
 Freight Rate Advance Case, 3†, 5, 50‡, 82, 93†, 99, 167, 178†  
 Grain from Buffalo, 485  
 Grain from Cairo, 484  
 Illinois-to-Iowa Rates Reduced, 773  
 Lake Cargo Coal Rates, 212  
 Locomotive Inspection Rules Modified During War, 434, 556  
 Lumber Rates Not Too High, 773  
 Milk and Cream Rates, 210  
 Mitchell, S. D., Rates to, 257  
 New York Storage and Reconsignment Charges, 773  
 Rails to Eastern Points, 819  
 Reconsignment Case, 539  
 Rice to Lake Charles, La., 773  
 Southeastern Traffic at Indianapolis, Class Rates on, 484  
 Southern Pacific Company's Ownership of Atlantic Steamship Lines, 210  
 Tariff Changes Authorized, 1005, 1053  
 Tariff Filing, New Law on, 290, 352, 399, 625, 660, 689, 757, 808, 1053  
 Transcontinental Rate Case, 147, 174†, 819, 875†, 885  
 Water Competition, 147
- Investment Bankers' Association:**  
 Committee on Railroad Securities Suggested Form for Standard Annual Report, 1062†  
 Credit of the Railroads, 897
- Federal Incorporation, S. Davies Warfield on, 907, 918†, 1115‡**
- Investors' Protective League of America: Government Loan to Railways, 407†**
- Invoice (See Freight)**
- Iron and Steel:**  
 Chilled Iron Wheel Mechanics, 157  
 Exports in 1917, 260  
 Malleable Iron, Characteristics of, 343\*  
 Metal Alloys Used in Locomotives, 424  
 Steel Prices Reduced, 561, 711  
 Steel, Report of the Amer. Soc. for Testing Materials on, 13\*  
 War Requirements, 30
- Italy:**  
 Accident at Arquata, 298  
 Albania's First Railroad, 429\*  
 Gun Transportation at the Front, 247\*  
 War Prisoners as Laborers, 296\*
- J**
- Japan:**  
 Commission in America, 710  
 Progress of Railroads, 646\*, 791\*  
 Japan Travel Association Organized, 579  
 Joliet Railway Supply Company: Bolster, Hutton Truck, 812\*
- K**
- Kansas City Southern: Operating Performance Records, 652**
- Kaustine Toilet Installation, 1042\***
- Kelley, Howard G., 417\***
- Kerosene (See Fuel)**
- Kilpatrick Bros. & Collins: Union Pacific's New Line in Eastern Utah, 329\***
- Knife-Edges (See Weighing)**
- Kolesch & Co.: Calculator, A Composite, 182\***
- Krausch, W. T.: Coaling Plants and Fuel, 993**
- Kruttchnitt, J.: Rate of Depreciation, 1116‡**
- L**
- Labor (See Employee; also Maintenance of Way)**
- La Follette, Senator: Anti-Railway Statesman Who Is Also Anti-American, 447†**
- Lamson Company: Pneumatic Tubes in Freight Yards, 192\***
- Land Grant History and Returns, 589†, 591**
- Land Valuation, Co-operation in, 104**
- Larson, C. M.: Passenger Fares in Wisconsin, 1061†, 1067‡**
- Latch (See Car—Door)**
- Leakage (See Train Leakage)**
- Legal Decisions:**  
 Accidents at Crossings, 40, 47†, 56, 124, 400, 445†, 539, 625, 820, 868, 1054, 1194  
 Assault and Robbery in Car, 1195  
 Attraction to Children, 911  
 Bill of Lading Cases, 625, 1194, 1195  
 Carrier's Liability as Warehouseman, 670  
 Claim Cases: 485, 961  
 Commission's Power to Subscribe Unremunerative Rates, 364  
 Condemnation Proceedings by a Railroad, 258  
 Consignee's Liability for Freight Charges, 1194  
 Corporation Tax Law, 399  
 Crane Operation at Terminal Not a Nuisance, 580  
 Damages, Excessive, 84, 626  
 Demurrage or Storage Charges, 167  
 Derailment by Sand on Crossing, 1053  
 Directors' Power as to Receiverships, 1054  
 Employees' Authority to Hire Physician, 1195  
 Exclusive Transfer and Express Privileges, 124  
 Defective Cars, Right to Haul, 124  
 Demurrage Charges, Reasonableness of, 911  
 Federal Employers' Liability Act, 168, 485, 486, 1054, 1104  
 Fires, Damages from, 84, 399, 820, 960  
 Flood, Damages from, 960  
 Foreign Shipments, Liability for, 581  
 Freight Rate Cases, 40, 167, 305, 364, 773  
 Freight Speed Law Held Legal in Nebraska, 40  
 Frightening Horses by Whistle, 124  
 Grade Crossing Abolition, 710, 819  
 Handholds on Locomotives in Ohio, 1104  
 Headlight Law, Alabama, 819  
 Headlight Suit, Dismissed; N. Y. C., 710  
 Hours of Service Act, 213, 364, 718, 773, 820, 868, 1006  
 Illinois Central's Contract with Kentwood & Eastern for Lumber Transportation, 304  
 Initial Carriers' Liability, 580  
 Injuries to Employees, 213, 305, 1005, 1006, 1053, 1104, 1194  
 Injuries to Passengers, 41, 258, 363, 399, 486, 820, 868  
 Interstate Commerce Commission's Awards as to Discrimination, 626, 868  
 Interstate Commerce Commission's Ruling on Rate Between Houston and Chicago, 773  
 Interstate Shipments, 84, 258  
 Invalids as Passengers, 305  
 Liquor, Intoxicating, and Employees, 1054  
 Liquor Transportation, 305, 626, 719, 1150  
 Live Stock Handling, 305  
 Louisville & Nashville Officers Must Answer Questions of I. C. C., 849  
 Lumber Rates to Paducah and Cairo; St. L. S. W., 961  
 Missouri, Kansas & Texas Denied Additional Receiver, 718  
 Passes, Free; Southern Ry., 476  
 Passes to Employees, 399  
 Passing Trains at Stations, 205  
 Physical Connection Between Tracks, 961  
 Rate Fixing in Missouri, 259  
 Rate Fixing on the Evansville & Indianapolis, 811  
 Rates, Prohibitive, Not Necessarily Unlawful, 1194  
 Rebating Cases, 41  
 Recovery by Initial Carrier from Connecting Carrier, 258  
 Recovery for Undercharge, 819  
 Recovery of Overpayments, 124, 670  
 Relief Department Contract—Release in Full, 581  
 Reorganization Plan, Objection to, 363  
 Right of Way Grant, 259  
 Safety Appliance Act, 257, 305, 363, 539, 773, 831†, 911  
 Signal Nuisance Not an "Attractive Nuisance," 581  
 Smith, A. G., Awarded Damages from Brotherhood, 476  
 State Commission's Power to Refuse Permission to Issue Bonds, 670  
 State Commission's Regulation of Rates and Fares, 911, 960  
 Station, Change in Location of, 258  
 State Construction Order Unreasonable—Wabash vs. Missouri P. S. Commission, 305  
 Ston, Look and Listen Rule, 213, 580, 820, 831†, 911  
 Storage Charges on Goods Delivered to Steamship, 167  
 Tariff Rates Control, 40  
 Telegraph and Railroad Companies, For change of Services Between, 363, 718  
 Tickets, Right to Use, 41  
 Ticket with Time Limit, 820  
 Trackside Agreement Construed, 1150  
 Train Sheets as Evidence, 819  
 Transit Credit, Unused, 257  
 "Transportation" of Interstate Shipments of Live Stock, 1054  
 Trespassing Children, 124  
 Water from Streams for Locomotives, 539  
 Workmen's Compensation Law, 213, 485
- Legislation:**  
 Anti-American, 447†  
 Daylight Saving Bill, 33  
 Deficiency Appropriation Bill, 566, 619, 666  
 Esch-Pomerene Law, 106  
 Explosives, Licenses to Use, 906  
 Freight Cars, Bill for Government Purchase of, 452  
 Full-Crew Law in New Jersey, 359, 465, 668, 873†, 896, 971‡  
 I. C. C. Reorganization Bill, 32, 228, 289, 544†, 587†, 597\*, 711  
 Improving Lawmaking Methods, 31  
 Incorporation Law Urged, 507  
 New, 160, 416  
 Priority Law, 34, 227, 291, 415  
 Speed Laws and Efficiency, 798  
 State Laws in 1917, 635†, 751  
 Violations of Laws, Fines for, 476, 619, 769  
 War Tax Law, 37, 56, 193, 229, 291, 416, 451, 607, 761  
 Webb Bill Passed, 1146  
 Workmen's Compensation Laws, 240
- Lehigh Valley:**  
 Efficiency Placard, 359  
 Fire Marshal, 814
- Lewis, Commissioner Dwight N.: Reply to E. P. Ripley on Minimum Carload Weights, 324†, 327‡**
- Lewis Power Reverse Gear, 1184\***
- Liberty Loan:**  
 Central of Georgia's Appeal, 702  
 Chicago, Rock Island & Pacific Trackmen's Subscriptions, 675†  
 Committee's Campaign for Subscriptions, 651, 702  
 Final Returns of First Loan, 35, 76  
 Handling Subscriptions on Railroads, 741  
 Pennsylvania's Foreign-Born Subscribers, 577  
 Pennsylvania System's Subscriptions, 652, 666, 865  
 Pennsylvania to Hold Bonds, 406†  
 Posters, 477, 652  
 Subscriptions to Second Issue, 588†, 620, 651, 675†, 702, 769, 815, 865, 903, 953, 1001
- Libraries for Soldiers, 68**
- Lighting:**  
 Dodds' Stored Light, 431\*  
 Electrical Equipment in Car Design, 173†  
 Oil Gas for Train Lighting, 995  
 Shop Lighting, Good, Economy of, 732†  
 Upper Berths, 374†, 679†, 836†, 972‡
- Livestock Shipments Regulated, 1102**
- Loader (See Hoisting and Conveying)**
- Loading (See Car Service; also Train Loading)**
- Loan (See Finance; also Liberty Loan)**
- Locomotive:**  
 American and Belgian Locomotives Received by U. S. Engineers in France, 1069\*  
 Annual Report of Chief Inspector of Locomotive Boilers, 1064†, 1077\*  
 Baldwin Works, Production at, 1055  
 Consolidation Types Converted into Eight-Wheel Switchers; B. & A., 235\*  
 Conversion of Freight to Switch; C. & E. I., 799\*  
 Decapod, for Russia, 637\*  
 Design from a Maintenance Standpoint, 683  
 Electric, for South American Line, 384\*  
 Electric; Pennsylvania, 606\*, 934\*  
 Firebox Temperature Tests; T. & P., 515\*  
 Fuel (See Fuel)  
 Headlight Suit Dismissed; N. Y. C., 710  
 Illinois Central 2-10-2 Type, 107\*  
 Inspection Rules Modified During War, 434, 556  
 Japanese Railways, 794\*  
 Loading, Heavier Engine, 971‡  
 Metal Alloys Used in Locomotives, 424  
 New York Central 4-8-2 Type, 1167\*  
 Orders and Prices in 1917, 914, 100  
 Pilot and Ash Pan, Commonwealth Cast Steel, 709\*  
 Pulverized Coal Burning; Central Railway of Brazil, 767\*  
 Report of Movement Through Terminals; Pennsylvania, 595\*  
 Santa Fe Type; D. & R. G., 189\*, 264†  
 Smoke Abatement, Factors in, 557\*  
 Stoker, Duplex Type D, 72\*  
 Stoker Operation on the B. & O., 513  
 Terminal Delays, 749\*  
 Three-Cylinder Arrangement, 878†  
 U. S. A. for Service in France, 295\*, 645\*  
 Wabash 2-10-2 Type, 1025\*  
 Water, Delivery of, 703  
 Whistling, Psychology in, 964, 408†
- Locomotive Stoker Company: Duplex Stoker, 72\***
- Long Island:**  
 Embargoes on L. C. L. Freight and "Shipping Days," 910  
 Fare Increases, 304, 1053  
 Soldiers' Fares, 568, 633‡  
 Traffic on the Pennsylvania, 81  
 Transporting Troops to Camp Upton, 567\*  
 Lonsdale, John G.: Are the Railroads Getting Their Dues?, 740  
 Loree, L. F.: Public's Co-operation, Record of, 353  
 Los Angeles & Salt Lake:  
 Freight Claim Record, 477  
 Patriotism and Transportation, 1038

## GENERAL INDEX—Continued

[Illustrated articles are indicated thus \*; Editorials thus †; Letters to Editor thus ‡.]

Louisville & Nashville:  
 Cars, Scale Test, 249\*  
 Guard Rail Device, 474\*  
 Officers Must Answer Questions of I. C. C., 849  
 Vouchers, Handling, 425\*  
 Western Union Telegraph Company, Controversy with the, 34, 77  
 Lovett, Robert S.:  
 Priority Director, 351\*  
 Priority Orders (See Priority)  
 War Industries Board, Member of, 182, 205, 395

## M

McAdoo, William G., Director General of Railroads, 1155†, 1170  
 McCord, Commissioner C. C.:  
 Government Operation of Railways During War, 1013†, 1045, 1062†, 1079  
 Rate Advance Decision, 11  
 McKee Motor Car Company: Kerosene as Fuel, 116\*  
 Mail:  
 Aerial Routes Proposed, 574  
 Pay on Space Basis, 781†, 1076  
 Zone System of Second-Class Mail Rates, 433  
 Maine Central: Passenger Fares Increased, 483  
 Maintenance of Way: (See also Roadmasters' and Maintenance of Way Association; also American Railway Bridge and Building Association):  
 Conventions, Programs of, 428  
 Conventions Should Be Held, 174†  
 Laborers, Track, Securing and Retaining, 526  
 Labor Saving Equipment, 530  
 Track Work Neglected, 371†, 374†, 449‡  
 Master Painters' Association, Annual Convention, 690, 758  
 Malleable Iron, Increased Utility of, 343\*  
 Man Force (See Organization)  
 Maney, Thomas: Guard Rail Device, 474\*  
 Manganese Crossings, 949\*, 976\*  
 Maps:  
 Japan, 647\*  
 Slacker States, 952\*, 1061†, 1067‡  
 Marion Steam Shovel Company: U. S. A. Shovel, 645\*  
 Market (See Agriculture)  
 Markham, C. H.: Government Ownership, Probability of, 449‡  
 Master Car Builders' Association: Letter Ballot Results, 523\*  
 Materials (See Equipment and Supplies; also American Society for Testing Materials)  
 Mechanical Department:  
 Equipment in Bad Shape, 544†  
 Material for, 590†  
 Robb, W. D., Vice-president of Grand Trunk, 406†, 442\*  
 Valuation, Suggestions for, 132†, 141  
 Mechanics of the Chilled Iron Wheel, 157  
 Mellon, Charles S.: Government Ownership Advocated, 1050  
 Metal Alloys Used in Locomotives, 424  
 Metal, G-E Thermostats, 357\*  
 Metal Primer Tests, 15  
 Mexican Railway Changes, 76, 77  
 Mileage (See also Car Service):  
 I. C. C. Figures for June 30, 1916, 237  
 Scrap Market and Mileage, 921†  
 Military Railway (See War)  
 Militia and the Railways, Correlating the, 1172  
 Miller, Henry: Russian Railway Situation, 979  
 Miller Train Control Corporation: Automatic Stop; C. & E. I., 822  
 Missouri, Kansas & Texas:  
 Comparison with St. Louis-San Francisco, 492†\*  
 Receiver, Additional, Denied, 718  
 Reorganization Plans, 448†  
 Schaff, Charles E., on the Rate Advance Decision, 99  
 Wage Increases to Shopmen, 433  
 Mobilization (See War—National Army)  
 Moreland Auto-Rail Truck, 1188\*  
 Morekum Printing Telegraph; So. Pacific, 769  
 Motion Pictures:  
 Film, Uses of the, 379  
 "Rule of Reason, The"; N. Y. C., 187\*  
 Motor Cars:  
 Kerosene as Fuel, 116\*  
 Oil-Electric; N. C. & St. L., 381\*  
 War, Use in, 402  
 Motor Terminals Company: Truck Service; C. C. & St. L., 427\*  
 Motor Trucks:  
 Akron & Boston Express, 960  
 Highway Transport Committee to Promote Use, 960, 967†, 1067‡  
 Train of Army Trucks in Run from Detroit, 1147, 1190  
 Trap Car Freight; C. C. & St. L., 427\*  
 Muller, Jean Paul: Bankers' Railway Bulletin, 620

## N

Nashville, Chattanooga & St. Louis:  
 Car, Oil-Electric Motor, 381\*  
 Christmas Greeting, 1190  
 Employees in War Service, 769  
 National Association of Railway Commissioners:  
 Annual Convention, 764  
 Pressing Need of Prompt Co-operation, 680  
 Safety at Grade Crossings, 804  
 Thelen, Max, Address of, 676†, 874†, 877‡  
 National Automobile Chamber of Commerce:  
 Switching Requirements, Circular on, 166  
 National Board of Fire Underwriters: Inefficient Watchmen, 1191  
 National City Bank: Iron and Steel Exports in 1917, 260  
 National Coal Association: Coal Situation—A National Menace, 968†, 1112†, 1115‡  
 National Exposition of Chemical Industries: Commercial Possibilities of the South, 587†  
 National Fertilizer Association: Car Conservation, 39, 1004  
 National Guard (See War; also Employee)  
 National Industrial Conference Board: Workmen's Compensation Laws, 240  
 National Industrial Traffic League:  
 American Railroads in War Time, 937  
 Annual Meeting, 917†, 931  
 Summer Meeting, 386  
 National Public Ownership Conference, Resolutions of, 1048  
 National Railway Appliances Association: Exhibit in March, 544†, 730†, 748\*, 957  
 National Safety Council:  
 Annual Congress, 435, 491†, 519  
 Progress in Accident Prevention, 459  
 National Scale Men's Association: Knife-Edge Materials and Stresses, 112  
 New England Railroad Club:  
 Freight Car as a Factor in Winning the War, The, 633†, 658  
 Fuel Records; B. & O., 1112†, 1131\*  
 New England Rate Hearings, 892, 967†, 1004, 1012†, 1149  
 New Jersey & Pennsylvania Dismantled, 205  
 New Jersey Full-Crew Law, 359, 465, 668, 873†, 896, 971‡  
 Newlands Joint Committee on Interstate Commerce: Investigation of Government Regulation, 607, 661, 862, 875†, 885, 1085, 1111†, 1137, 1166  
 Newlands, Senator F. G., Death of, 1185‡  
 New Republic, The: Government Ownership and Railway Rates, 328‡  
 New South Wales: Government Officials in America, 446†, 620  
 New York Central:  
 Electric Trucks for Storehouse Service at Collinwood, 1091\*  
 Equipment Expenditures, 815  
 Fare Increases Proposed, 257  
 Gardens, War, 334\*  
 Headlight Suit Dismissed, 710  
 Locomotives, 4-8-2 Type, 1167\*  
 Peach Shipments, 772  
 Rail Recorder, Deuel, 293\*  
 Safety First Motion Picture, "The Rule of Reason," 187\*  
 Smith, A. H., on the Rate Advance Decision, 35  
 Tamers, Electric Tie, 17\*  
 Thrift Special, 283\*  
 Track Problem on West Side of New York City, 1049  
 Women Scrap Handlers at Collinwood Shops, 121, 197\*  
 New York Connecting Railroad: Completion of Line, 135\*  
 New York Editorial Conference: Trading with the Enemy Act, 813  
 New York Guard Reorganized, 1172  
 New York, New Haven & Hartford:  
 Embargo, 304  
 Employees in War Service, 770  
 Sailing Days for Freight, 577  
 Yard at Montowese, Conn., 346  
 New York Port Commissions, 359  
 New York Port War Board, 865  
 New York Railroad Club:  
 Conservation and Reclamation of Material, 853  
 Women, Employment of, 923\*  
 New York State Waterways, 1102  
 Norfolk & Western: Safety Record, 297\*  
 North & South Railroad: Freight Car Requirements, 355\*  
 North Branford, Conn., Trolley Car Accident, 299, 369†, 656, 780†, 784†  
 Northern Pacific:  
 Reducing Errors in Handling L. C. L. Freight, 114\*  
 Terminal Developments of Vancouver, 945\*  
 Nixon, Frank W.: "Are We Capable of Self-Government?" 873†, 876

## O

O'Donnell Full-Crew Law Committee's Report, 465  
 Office Stationery, Savings in; B. & O., 350  
 Officer:  
 B. & O. Annual Meeting, 24  
 College Men Versus Experienced Men, 224‡  
 College Men's Future in Railroad Service, 393  
 Experts Advanced from One Road to Another, 1016‡  
 Initiative—Organization and Education, 222‡, 327‡  
 Reporting Delays, Dishonesty in, 409‡  
 Representing the Company Before the Public, 779†  
 Road Foreman of Engines, Importance of the, 491†, 543†, 729†  
 Sliding-Scale System of Pay, 420  
 Vice-president in Charge of the Mechanical Department, A., 406†  
 Ohio River Navigation with Artificial Floods, 667, 958  
 Oil (See Fuel; also Track)  
 Oil-Electric Motor Car; N. C. & St. L., 381\*  
 Oliver Iron Mining Company: Car, Automatic Air Dump, 234\*  
 Omaha Daily News: Railroad Profits and Melons, 589†  
 Operating Efficiency (See also Organization; also Train Despatching):  
 Bureau of Efficiency's Campaign to Reduce Claims; No. Pacific, 114\*  
 Car Interchange from an Operating Aspect, 110  
 Cost of Handling Tonnage in Way Freight Trains, 384\*  
 Freight Operations During April, 48†, 99; May, 241\*; June, 492†, 514; July, 676†, 696; August, 930; September, and for Six Months, 1112†, 1122  
 Fuel Economy, 418  
 Increasing the Train Load, 63\*, 201\*, 347, 457  
 Kansas City Southern's Train Loading Record, 652  
 Locomotive Terminal Delays, 749\*  
 Overlap in Signaling, 222†, 231, 374‡  
 Reports, Dishonesty in, 409‡  
 Reports, Unnecessary, in War Time, 378, 405†, 437  
 Speed Laws, T. J. Foley on, 798  
 "Swat the Letter" Campaign, 410‡  
 Telegrams, Reducing Number of, 971‡  
 Train Handling, 426  
 Operating Income (See Finance; also Revenues and Expenses)  
 Orenstein-Arthur Koppel Company: Cars, Automatic Air Dump, 234\*  
 Organization:  
 Correspondence, Follow-up, Overdone, 134‡  
 Correspondence, Reduction of, 410‡  
 Department of Service Suggested, 1015‡  
 Efficiency Meetings; C. & N. W., 146  
 Employment Department Proposed, 391, 393  
 Exchange of Men Between Roads, 1016‡  
 Fuel Department; C. R. I. & P., 103\*  
 Japanese Railway, 648\*  
 Labor Department's Function, 391  
 Man Force, Capital and Transportation Efficiency, 178‡  
 Power Plant Supervision; B. & O., 663\*  
 President of a Railroad, If I were, 393  
 War's Effect, 178‡

## P

Pacific Railway Club:  
 Advertising in Proceedings, 178‡  
 Japanese Commission Entertained, 710  
 Paint (See also Maintenance of Way Master Painters' Association):  
 Application to Railway Structures, 704  
 Pass (See also Employee; also Legal Decisions):  
 Patented Pass Form, 1086\*  
 Passenger Fares (See also State Commission Rulings):  
 Illinois Cases, 663  
 Japanese Railways, 648  
 Long Island Increases, 304, 1053  
 Maine Central Increases, 483  
 New England, Increases in, 892, 908, 958, 967†, 1004  
 New York Central Increases, 257  
 Slacker States, and Wisconsin, 952\*, 1061†, 1067‡  
 Soldiers' Fares; B. & M., 909  
 Soldiers' Fares; L. I., 568, 633†  
 Passenger Service:  
 Courtesy of Employees, 93†, 219†, 446†, 634†, 636‡  
 Dining Car Waste, 47†, 121, 328†, 546†, 634†, 636‡, 835†  
 Reductions in, 39, 81, 91†, 98, 123, 166, 304, 579, 938, 1012†, 1052, 1102, 1146, 1193  
 Upper Berth, Objections to, 374†, 679‡, 836†, 972†, 1117‡  
 Patented Pass Form, 1086\*  
 Patriotism, Practical, Elliott Howard on, 1038  
 Patterson, George S.: Rate Advance Case Testimony, 858, 971‡

- Pay (See Employee—Wages; also Mail)  
 Penick & Ford: Car Loading Record, 369†, 398  
**Pennsylvania Railroad:**  
 Broadway Limited Discontinued, 1012†, 1023  
 Car Loading, Heavier, 57\*  
 Consolidation with Pennsylvania Company, 1011†, 1058  
 Electric Tractors at Pier 4, New York, 199\*  
 Elevator at Erie, 1102  
 Employees in War Service, 434  
 Frank Thomson Scholarships, 299  
 Furloughs for Employees with the Colors, 61  
 Gardens, War, 334\*  
 Liberty Loan Bonds Held for Employees, 406†  
 Liberty Loan, Foreign-Born Subscribers to, 377  
 Liberty Loan, Second, Subscriptions to, 652, 666, 865  
 Locomotive, Electric, 606\*, 934\*  
 Locomotive Terminal Detention Records, 595\*  
 Passenger Service Reduced, 39, 123, 1012†, 1052, 1102  
 Passenger Traffic Increasing, 1052  
 Pass Privilege in War Time, 121  
 Rail Failure, Report on, 292\*  
 Rea, Samuel, on Rate Advance Decision, 35  
 Rea, Samuel, on Station in New York City, 974  
 "Sailing Days" for L. C. L. Freight, 16, 688  
 Signal Lights, Green, 34  
 Strike of Telegraphers, 619, 865  
 Testing Rails by the Quick Bend Method, 413\*  
 Tobacco for Men in France, 536  
 War Stamps, Selling, 1100  
 Western Union Telegraph Service, 34  
 Women Employees, 205, 923\*  
 Yard at Indianapolis, 735\*  
 Pere Marquette: Freight Station at Chicago, 225\*  
 Perishable Freight Inspection; C. B. & Q., 1186\*  
 Perishable Terminals Needed, 1116‡  
 Petroleum (See Fuel)  
 Pettibone-Mulliken Company: Crossing, Sectional Manganese, 949\*  
**Philadelphia & Reading:**  
 Coalizing Station at Philadelphia, 188\*  
 Crane, Portable, for Freight, 18\*  
 Philadelphia, Baltimore & Washington: Women, Employment of, 923\*  
 Philadelphia Bourse: Strike Prevention Legislation Urged, 903  
 Philadelphia District Committee on Car Service: Embargo on L. C. L. Freight, 909  
 Photographing Damaged Freight in Cars; D. L. & W., 855\*  
 Photographing Standard Plans; C. R. I. & P., 229\*  
**Piers:**  
 Docks and Wharves, A Study of the Dc. of, 421\*  
 Fire, Protection from, 643  
 Freight Transfer Facilities at New York, 240  
 Vessel Unloading; B. & O., 1033\*  
**Pilot, Commonwealth Cast Steel, 709\***  
 Pinkerton, William J.: Illinois Central Wildwood Farm, 186\*  
 Pittsburgh, Cincinnati, Chicago & St. Louis: Freight House at Indianapolis, 69\*  
 Pneumatic Scale Corporation: Package Freight Loss, 1149  
 Pneumatic Tubes in Freight Yards, 192\*  
**Pool** (See also Car Service): Eastern Lines' Facilities, 969†, 973, 1013†, 1031, 1081, 1175  
 Port Facilities at New York, 240  
**Posters:**  
 Liberty Loan, 477, 652  
 War, 517\*  
 Postmaster General's Annual Report, 1076  
 Power Plant Supervision; B. & O., 663\*  
 Powers Accounting Machine Company: Machines Used in Boston & Maine Auditing System, 501\*  
 President Wilson Takes Over Railroads, 1155†, 1170  
 Price (See Equipment and Supplies; also Iron and Steel; also Finance—Stocks; also Fuel—Coal; also Cost)  
 Priority Director, R. S. Lovett, 351\*  
 Priority for Coal, 300, 351\*, 452, 518, 691, 807, 891, 992, 1032, 1084, 1141  
 Priority for Food and Fuel, 1084  
 Priority Law, 34, 227, 291, 415  
 Priority Regulations for Railway Materials, 805\*  
 Private Car Investigation Reopened, 1194  
 Private Car Use Curtailed During War, 1061†, 1100, 1190  
 Profits (See Finance)  
 Promotion (See Employee)  
 Prouty, C. A.: Valuation, Government Position on, 599, 733†, 1123  
 Psychology in Locomotive Whistling, 96‡, 408‡  
 Public Service Commissions (See State Commissions)  
 Public Ownership Conference at Chicago, 1048  
 Public, The Railways' Relations with (See also Passenger Service):  
 Anti-Railway Statesmen Who Are also Anti-American, 447†  
 Co-operation, Record of, 353  
 Courtesy from Employees, 93†, 219†  
 Farmer and the Railroads, 93†, 545†, 685  
 Railroad Officer Instead of Lawyer to Represent Company, 779†  
 Railroads' War Board's Plea, 139  
 Trainmen as Missionaries of Public Opinion; I. C., 131†, 154, 412†
- Public Utilities, What Is a "Fair Return" for?, 335\*  
**Pullman Company:**  
 Car, Box, for American Forces in France, 851\*  
 Pass Form, Patented, 1086\*  
 Upper Berth Problem, 374†, 679‡, 836‡, 972†, 1117†  
 Pulverized Coal Locomotives for the Central Railway of Brazil, 767\*
- Q**
- Quebec Bridge Completed, 533, 543†, 569\*
- R**
- Ragonnet Reverse Gear, "Type B," 900\*  
**Rail:**  
 Failures in 1916, 811  
 Guard Rail Device; L. & N., 474\*  
 Saw, High Speed Friction, 294\*  
 Seaminess as a Cause of Failures, 292\*  
 Testing by Quick Bend Method; Pennsylvania, 413\*  
 Transverse Fissures, 177†, 996  
**Railroads' War Board** (See also Commission on Car Service):  
 Aishton, R. H., on How the Railways Are Helping Win the War, 547  
 Bulletin No. 42—Increasing Efficiency of Railroads, 928, 967†  
 Canadian Association, 710, 769, 1047  
 Car Shortage Figures, 48†, 117, 133, 303, 538, 769, 1146  
 Car Supply and Movement for Government Shipments, 145, 179\*. 207  
 Census of Railroad Employees in Government Service, 251, 953  
 Clark, Edgar E., on, 263†, 276  
 Coal Shortage, Railroads Not Responsible for, 1142  
 Co-operation, Results of, 618  
 Co-ordinating Committee on Exportation, 518  
 Draft Exemption Rules for Railway Employees, 23, 180, 251, 536, 968†, 1067†, 1114†  
 Electric Railways Organize, 907  
 Fire Protection, Suggestions for, 1093  
 Food on Dining Cars, Rules for Conservation of, 121  
 Freight Operations During April, 48†, 99; May, 241†; June, 492†, 514, 836†; July, 676†, 696; August, 930, September, and for Six Months, 1112†, 1122  
 Holden, Hale, on, 937  
 Indiana Committee on Information, 298  
 Liberty Loan Advertising, 477, 652  
 Livestock Shipments Regulated, 1102  
 Passenger Service Reduction, 39, 81, 91†, 98, 123, 166, 304, 579, 938, 1012†, 1052, 1102, 1146, 1193  
 Pool of Eastern Lines, 969†, 973, 1013†, 1031, 1081, 1175  
 Posters, War, 181  
 Private Cars Limited, 1061†, 1100, 1190  
 Public Service Commissions Pledge Cooperation, 255  
 South Atlantic and Gulf Export Committee, 1193  
 Transportation of Government Supplies to Army Camps, 145, 179\*. 207  
 Transportation Problem During War, 731†, 919†, 927\*, 969†, 1013†  
 Troop Transportation Figures, 1004, 1051  
 Wave Question in Hands of President, 917†, 953  
 Willard, Daniel, Resigns, 992  
 Work of, 12, 102, 139, 179\*, 464, 901  
**Railway Business Association:**  
 Australia: Government Officials Entertained, 446†, 620  
 Car Loading Records, 1†, 27\*, 338  
**Railway Club of Pittsburgh:** Mechanics of the Chilled Iron Wheel, The, 157  
**Railway Development Association:** Meeting at Chicago, 892  
**Railway Engineers** (See Railway Regiments)  
**Railway Executives' Advisory Committee:** Taxation, War, 193  
**Railway Fire Protection Association:**  
 Annual Convention, 641  
 Suggestions for Fire Protection, 816, 1093  
**Railway Mail Service** on June 30, 1917, 1076  
**Railway Regiments:**  
 Christmas Boxes from U. S., 1190  
 D. & H. Shopmen's Service Organization at Colonia, N. Y., 878†  
 Engineers Fight at Cambrai—Praise of French and British, 1011†, 1029\*, 1069\*, 1138  
 Engineers in Battle with Submarine, 396  
 Letters and Press Despatches, 1071, 1138  
 Locomotives from America and Belgium, 1069\*  
 New England Railways Aid 14th Railway Engineers, 907  
 Recruiting for More Regiments, 560, 562, 1190  
 Telegraph and Telephone Battalions, 1048  
 Tobacco Fund, 588†, 618, 656, 753, 810, 865, 878†, 906, 958, 1002, 1048, 1100, 1146, 1190  
 Twenty-First and Thirty-Fifth Engineers at Camp Grant, 999, 1070\*  
 Work of the Engineers in France, 207, 219†, 432, 469, 562, 851, 939\*, 1011†
- Railway Signal Association: Annual Meeting, 533  
**Ralston Steel Car Company:** Refrigerator Cars; B. & O., 981\*  
**Rates** (See Freight Rates; also Passenger Fares; also Legal Decisions)  
 Rea, Samuel:  
 Freight Rate Advance Decision, 35  
 Pennsylvania's Station in New York, 974  
 Reading Matter for Soldiers, 68  
 Reconsignment (See Car Service)  
 Recorder, Deuel Rail and Tire Contour, 293\*  
 Red Cross (See War)  
 Regulation (See Government Regulation)  
 Reports (See Annual Reports; also Operating efficiency)  
 Representative Commission Proposed, 1117†  
 Revenues and Expenses:  
 Bureau of Railway Economic's Summary for May, 206, 220†; June, 447†, 480; July, 816; August, 875†, 906; September, 1002  
 Bureau of Railway Economic's Summary for Calendar Year 1916, 550  
 Bureau of Railway News & Statistics for September, 1093  
 Interstate Commerce Commission for October, 1191  
 Interstate Commerce Commission's Abstract for Year Ended June, 30, 1916, 237, 263†  
 Statistics for Class I Roads, January to May, 1917, 220†  
 Ripley, E. P.: Minimum Carload Weights in Kansas, 176†, 324†, 327†  
 River Cutting Gun, 431\*  
 Road Foremen's Importance, 491†, 543†, 729†  
 Roadmasters' & Maintenance of Way Association: Annual Convention, 102, 436, 526, 577  
 Robb, W. D., Appointed Vice-president of Grand Trunk, 406†, 442\*  
 Robbery (See Train Robberies)  
 Roberts & Schaefer Company  
 Coalizing Station; Illinois Central, 115\*  
 Coalizing Station; P. & R., 188\*  
 Rolling Stock (See Equipment and Supplies)  
 Rules (See Train Rules; also Locomotive—Inspection)  
**Russia:**  
 Commission, American, Report from, 37  
 Equipment Necessary to Win War, 263†, 274\*, 323†  
 Locomotives, Decapod, 637\*  
 Railway Situation, 354, 979  
 Russian Railway Service Corps, 933, 1100.  
 Ryerson, Joseph T., & Son:  
 Anniversary, 775  
 Saw, High Speed Friction, 294\*
- S**
- St. Joseph & Grand Island: Bridge Reconstructed, 74\*  
 St. Lawrence Bridge Company: Quebec Bridge Completed, 543†, 569\*  
 St. Louis Railway Club: How the Railways Are Helping Win the War, 547  
 St. Louis-San Francisco:  
 Accident at Kellyville, Okla., 620  
 Comparison with Missouri, Kansas & Texas, 492\*  
 School for Women, 361  
 St. Louis Southwestern: Annual Report, 268†\*, 309  
 St. Paul Belt Line: Construction, 97\*  
 St. Paul Union Station, 1143  
 Safety Appliances, Annual Report on, 1177  
 Safety First (See also National Safety Council): Alabama Great Southern Won Safety Medal, How, 160  
 Grade Crossings, State Laws on, 804  
 Grand Trunk, Bulletin, 1190  
 Motion Picture, "The Rule of Reason," N. Y. C., 187\*  
 Norfolk & Western's Record, 297\*  
 "Sailing Days" (See Freight)  
 Salary (See also Employee—Wages):  
 Adapting Salaries to Positions, 393  
 Sliding Scale of Pay, 420  
 Salvaging Rolling Stock; A. T. & S. Fe, 461\*  
 Sand (See Concrete)  
 San Francisco-Oakland Terminal Railways: Automatic Stops, 577  
 Sanitation: Kaustine Toilet Installation, 1042\*  
 Saw (See Rail):  
 Scale (See Weighing):  
 Schaff, Charles E.: Freight Rate Advance Decision, 99  
 School (See Education)  
 Scrap Handlers, Women; N. Y. C., 197\*  
 Scrap Market and Railway Mileage, 921†  
 Scrap Value, M. K. Barnum on, 853  
 Seaboard Air Line:  
 Annual Report, 1065†\*  
 Car Efficiency Circular, 813  
 Records of Shipments of Intoxicating Liquors, 1150  
 Securities (See Finance)  
 Service Department on Railways Recommended, 1015†  
 Shannon, Major Robert E.: Supplies for an Army of One Million, 1130  
 Shaughnessy, J. F.: Testimony Before Newlands Committee, 1111†, 1137  
 Shed (See Snow Shed)  
 Shop Lighting, Good, Economy of, 732†

## GENERAL INDEX—Continued

[Illustrated articles are indicated thus \*; Editorials thus †; Letters to Editor thus ‡.]

- Shore Line Electric Railway: Accident at North Branford, 299, 369\*, 656  
 Short Line Railroad Association of the South: Loading Uppers of Freight Cars, 28  
 Shovel (See Hoisting and Conveying)  
 Signal Appliance Association: Annual Meeting, 301  
 Signaling (See also Railway Signal Association)  
   A. C. Signals; Southern Ry., 390\*  
   Automatic Stop, Miller; C. & E. I., 822  
   Automatic Stop, Wooding's, 471\*, 834‡  
   Automatic Stops on the San Francisco-Oakland, 377  
 Block Signals and Interlocking, Reasons for Equipping a Line with, 743  
 Electric Interlocking Plant at Corwith, Ill.; C. & A., 152\*  
 Electro-Mechanical Interlocking Plant at Buffalo; D. L. & W., 789\*  
 Fuses, Suggestions Regarding, 224‡  
 Green for Proceed; Pennsylvania, 34  
 Overlap Discussed, 224†, 231, 374‡  
 Publicity Bureau of Signal Companies, 720\*  
 Standard Code Rules, 17 and 90, 388\*  
 "Stop and Proceed" Rule, 1158‡  
 Whistling, Psychology in, 96‡, 408‡  
 Simmons, T. D.: Weekly Car News, The, 813  
 Simplex Clasp Brake, 475\*  
 Slack Adjuster (See Car, Freight)  
 Smith, A. H.: Freight Rate Advance Decision, 35  
 Smoke Prevention Association: Factors in Locomotive Smoke Abatement, 557\*  
 Snow Sheds:  
   Great Northern, 1087\*  
   Union Pacific, 1157†, 1159\*  
 Society of Railway Financial Officers: Annual Meeting, 732†, 739  
 Soldiers, Reading Matter for, 68  
 Soldiers' Social Service Bureau; C. & N. W., 1183\*  
 Soldiers' Welfare Committee in St. Louis, 1147  
 South America:  
   Electrification of Industrial Line, 384\*  
   State Ownership Fails, 75  
 South Atlantic and Gulf Export Committee, 1193  
 South, Commercial Possibilities of the, 587†  
 Southern Pacific:  
   Car Conservation Circular—Don't Be a Slacker, 159  
   Car Loading Competition, 61, 815  
   Clancy, R. J., on Increased Prices, 206  
   Efficiency in Use of Equipment, 999\*  
   Fire Protection Campaign, 1047  
   Loading of Cotton, 1188\*  
   Morkrum Printing Telegraph, 769  
   Strike Settled, 251  
   Tie Plate, A Heavy, 294\*  
 Southern Pine, Decay Resistance of, 888  
 Southern Ports for Export Freight, 134‡, 223‡, 1084  
 Southern Railway:  
   Accident at Larmond, Va., 1171  
   Annual Report, 677\*, 722  
   Construction of Second Track Between Washington and Atlanta, 833†, 841\*  
   Fine for Granting Free Passes, 476  
   Signals, A. C., 390\*  
 Southwark Foundry & Machine Company: Rail Testing Machine; Pennsylvania, 413\*  
 Special Committee on Relations of Railway Operation to Legislation:  
   State Laws in 1917, 635†  
 Speed (See Train Speed)  
 Springfield Republican:  
   Officer Not Lawyer Should Represent Railroad Company, 779†  
   Waugh, Frank A., on Dementia Pullmaniana, 1147  
 Standard Code (See Signaling)  
 State Commissions:  
   Connecticut: Accident at North Branford, 656, 780†, 784‡  
   Illinois:  
    Car Economy Appeal, 483  
    Coal and Coke Rates, 123  
   New Jersey: Full Crew Law, 359, 465, 668, 873†, 896, 971‡  
   New York:  
    A Ten-Year Record, 83  
    N. Y. C. Freight Tracks in New York City, 1049  
   Pennsylvania: Construction of Telegraph Lines Across Railroad Lines, 670  
   Tennessee: B. A. Enloe on Conserving Transportation, 181  
   Wisconsin: Passenger Fares, 1061†, 1067‡  
 State Commission Rulings:  
   Colorado:  
    Accident Reports by Telegraph, 405†, 437  
    Train Service Reductions (See Passenger Service)  
    Crystal River & San Juan Discontinued, 1194  
    Denver & Salt Lake Fares Increased, 670  
    Denver, Laramie & Northern Abandoned, 580  
    Monthly Passenger Train Movement Reports Discontinued, 1194  
 State Commission Rulings—Colorado (Continued):  
   Sheds for Carmen, 580  
 Georgia: Freight Rate Reductions, 1150  
 Illinois: Coal Rates Increased, 670  
 Indiana:  
   Coal Rates Increased, 485  
   Demurrage Rules Modified, 959  
 Iowa: Train Service Reductions, 938  
 Kansas: Minimum Carload Weights, E. P. Ripley on, 176†, 324†, 327‡  
 Kentucky: Coal Rates; L. & N., 911  
 Louisiana:  
   Freight Rate Increase Denied, 167  
   Railroads Must Secure More Open Top Cars, 303  
   Separate Accommodations for White and Colored Passengers, 819  
   Texas & Pacific Fined for Discontinuing Passenger Train, 1005  
 Mississippi: Tax Assessments, 1146  
 Missouri: Passenger Fares Increased, 958  
 Nebraska: Demurrage Charges, 38  
 New Jersey: Full Crew Law, 873†, 896  
 New York:  
   Increased Allowance for Grain Doors, 911  
   Long Island Fare Increase, 304, 1053  
 Virginia: Southern Fined for Granting Free Passes, 476  
 West Virginia: Coal Rates Increased, 911  
 Wisconsin: Coal and Coke Rates, 958  
 State Commissioners Testify Before Newlands Committee, 1085, 1111†, 1137, 1166  
 State Legislation in 1917, 635†, 751  
 State Ownership (See Government Ownership)  
 State Regulation:  
   Ripley, E. P. on, 176†, 324†, 327‡  
 State University of Iowa: What Is a "Fair Return" for Public Utilities?, 335\*  
 Station:  
   American Freight, in France, 1029\*  
   Canadian Northern at Vancouver, 945\*  
   Coaling: Georgia & Florida, 1139\*  
   Coaling: Illinois Central, 115\*  
   Coaling; P. & R., 188\*  
   Courtesy at Station Stands, 219†  
   Freight; Erie, 809\*  
   Minimum Facilities, 1003  
   Northern Pacific-Great Northern at Vancouver, 945\*  
   Passenger, at Danville, C. & E. I., 375\*  
   Passenger, at Marshfield, Wis.; C. St. P. M. & O., 883\*  
   Pennsylvania in New York, Samuel Rea on, 974  
   St. Paul Union, 1143  
 Statistics (See also Revenues and Expenses):  
   Fire Losses During 1916, 644  
   Freight Operations During April, 48†, 99; May, 241\*, June, 492†, 514; July, 676†, 696; August, 930; September, and for Six Months, 1112†, 1122  
   Freight Traffic per Locomotive and Car, 370†  
   Interstate Commerce Commission's Abstract for June 30, 1916, 237, 263†  
   Japanese Railway Traffic, 649  
   Operating Income, 1891 to 1917, 1018  
   Rail Failures in 1916, 811  
   Returns for January to May, 1917, 220†  
   Returns for Year Ended December 31, 1916, 550, 562  
   Returns for Year Ended June 30, 1916, 237, 263†  
   Ton-Miles Handled Per Freight Locomotive and Per Freight Car, 370†  
   Wood Preservation in 1916, 110  
 Steel (See Iron and Steel)  
 Stock (See Finance)  
 Stock Car (See Car, Freight)  
 Stoker (See Locomotive)  
 Storage Facilities Needed, 145, 207, 1181  
 Storage of Coal, 111  
 Storage of Perishables, 1116‡  
 Sub-Committee (See Committee)  
 Sullivan, J. G.: Rogers Pass Tunnel, Data on, 474  
 Supplies (See also Equipment and Supplies):  
   Army of 1,000,000, Requirements of an, 1130  
   Camp Funston's Requirements, 450\*  
 Supply Companies Discontinue Sending Holiday Cards, 822  
 Sweet, Charles S. Jr.: Pass Form, Patented, 1086\*  
  
 T  
 Tamper (See Track)  
 Tariff (See Freight Rates)  
 Tax Assessment in Mississippi Fought, 1146  
 Tax Law, War, 37, 56, 193, 229, 291, 416, 451, 607, 761  
 Taxes in September, 1917, 1093  
 Taylor-Wharton Iron & Steel Company: Anniversary, 775  
 Teachers and Professional Service Division, U. S. Employment Service, 667  
 Telegraph (See also Association of Railway Telegraph Superintendents):  
   Battalions of Railroad Men for Service in France, 1048  
 Ties and Timber:  
   Creosote Oil's Effect on Marine Borers, 801\*  
   Creosote Treatment of Douglas Fir Piles Investigated, 657\*  
   Southern Pine, Decay Resistance of, 889  
   Tampers, Electric Tie; N. Y. C., 17\*  
   Tie Plate; So. Pacific, 294\*  
   Wood Preservative Statistics, 110  
 Time Tables, Economies in, 675†  
 Tobacco Fund, Pennsylvania Railroad, 536  
 Tobacco Fund, Railway Regiments, 588†, 618, 656, 753, 810, 865, 878‡, 906, 958, 1002  
 Toilet Installation, Kaustine, 1042\*  
 Tonnage (See Train Loading)  
 Topeka Capital: Securities, Shrinkage of, 917†  
 Tourist and Publicity Bureau of Denver, 864  
 Track:  
   Crossing, Reversible Manganese, 976\*  
   Crossing, Sectional Manganese, 949\*  
   Deterioration of, 371†, 374‡, 449‡  
   Guard Rail Device, 474\*  
   Inspection of Ties for Renewals, 527  
   Oiling Fastenings, 529  
   Tampers, Electric Tie; N. Y. C., 17\*  
   U. S. Army Equipment, 975†  
 Track Supply Association: Exhibit, Annual, 532  
 Tractor (See Truck)  
 Trading with the Enemy Act, 813  
 Traffic (See also Car Service; also Priority Orders):  
   Car Requirements of a Railroad Determined, 355\*  
   Coal Movement, Figures of, 324†, 352, 518, 717, 902, 927  
   Coal Movement in Illinois, 361  
   Co-ordination of All Transportation Agencies, The, 1111†  
   Export More from Southern Ports, 134‡, 223‡, 1084  
   Freight Congestion (See Freight)  
   Freight Handled per Locomotive and Car, 1908 to 1917, 370†  
   Freight Traffic in 1916, 370†  
   Freight Traffic in 1917, 548, 919†, 927  
   General Operating Committee's Orders, 1023, 1136  
   Government Traffic Manager Urged, 1013†, 1075  
   Japanese Railway Statistics, 649\*  
   Long Island in Manhattan, 81  
   Transportation of Government Supplies to Army Camps, 145, 179\*, 207, 450\*  
   Transportation of Troops:  
    Camp Devens; B. & M., 759\*, 1052  
    Camp Funston; U. P., 450\*  
    Camp Upton; L. I., 567\*  
    Fort Sheridan; C. & N. W., 250  
    National Army and Guard, 113, 333, 415, 450\*, 452, 566, 567\*, 608, 667, 759\*, 772, 1004, 1051, 1052  
    Tourist Bureau of Denver, 864  
    War Problem, 731†, 919†, 927\*, 969†, 1013†  
 Traffic Club of Pittsburgh: Increased Rates to Offset Increased Expenses, 394  
 "Traffic Executive" Established, 1052  
 Train Despatchers' Association of America:  
   Annual Convention, 29  
   Despatcher's Part in the War, 26  
   Taking Railroad Lawmaking by the Forelock, 31  
 Train Despatching:  
   Conductors and Inspection Parties, 410‡  
   Despatcher's Part in the War, 26  
   Train Loading Problem, 457  
 Train Handling, 426  
 Train Leakage, Testing, 564\*  
 Train Loading:  
   Contest on Increasing the Train Load, 63\*, 201\*, 347, 457  
   Engine Loading, Heavier, 971‡  
   Kansas City Southern's Record, 652  
   Tonnage Bureau, A, 63  
   Tonnage Diagrams, Use of, 66\*  
   Tonnage Rating and the Road Foreman, 543†  
   Tonnage Rating, Economical, for Way Freight Trains, 384\*  
 Train Robberies, 204, 574, 769, 1001

**Train Rules:**  
 Discussion of the Train Despatchers' Association, 29  
 Examiner in; C. & A., 903  
 Stops, Unnecessary, 1158‡  
 Standard Code Rules 17 and 90, 388\*  
**Train Speed Laws:** T. J. Foley on, 798  
**Train Stops, Unnecessary:** 1158‡  
**Transcontinental Railway, Australian:** 1187\*  
**Transcontinental Rates (See Freight Rates)**  
**Transportation (See Traffic)**  
**Transverse Fissures (See Rail)**  
**Trespassing (See Accident)**  
**Troop Transportation (See Traffic)**  
**Truck:**  
 Bolster, Huntoon, 812\*  
 Electric, for Freight Handling, 1039\*  
 Electric, for Storehouse Service; N. Y. C., 1091\*  
 Electric Tractors at Pier 4, New York; Pennsylvania, 199\*  
 Freight Car, Buckeye, 387\*  
 Freight House Truck—Care in Buying, 1064†  
 Moreland Auto-Rail Truck, 1188\*  
 Motor (See Motor Trucks)  
 Slack Adjuster for Freight Cars, 950\*  
 Tubes, Pneumatic, in Freight Yards, 192\*  
**Tuco Products Corporation:**  
 Door Latch, Vestibule Trap, 249\*  
 Insulation, Passenger Car Floor, 203\*  
**Tunnel:**  
 Rogers Pass; Canadian Pacific, 474  
 Union Pacific, on Emory-Wahsatch Line, 329\*  
**Twenty-First Engineers, Officers of:** 999  
**Twin City Belt Railway Company:** Belt Line Around St. Paul, 97\*

**U**

Umbrella, Dayton Book, 702\*  
**Union Bridge & Construction Company:** Platte River Bridge; C. B. & Q., 183\*  
**Union Pacific:**  
 Line Between Emory, Utah, and Wahsatch, 329\*  
 Snow Sheds, Concrete, 1157†, 1159\*  
 Transportation to Camp Funston, 450\*  
**United States Bureau of Labor Statistics:**  
 Bulletin No. 224, 960  
**United States Chamber of Commerce:**  
 Federal Regulation, Exclusive, Urged, 507  
 War Convention of American Business Men, 436, 481  
**United States Chamber of Commerce Committee on Co-operation with the Council of National Defense:**  
 Steel for War Needs, 30  
 Storage Facilities, Development of, 145, 207  
**United States Coast and Geodetic Survey:**  
 Uniform Datum for Railway Elevations, A, 48†  
**United States Department of Agriculture:**  
 Car Loading Bulletin, 28  
 Market-Train Service Discussed, 339  
**United States Department of Commerce:**  
 Waterway Use Urged, 300  
**United States Employment Exchange for Engineers:** 667  
**United States Food Administration:**  
 Cattle Relief in Texas, 770  
 Discrimination, Reciprocal, 446†  
 Transportation Division's Work, 771  
**United States Fuel Administration:**  
 Coal Distribution, 757  
 Orders for Lehigh Valley and Chesapeake & Ohio, 1007  
**United States Geological Survey:**  
 Coal Consumption in 1916, 250  
 Coal Production Figures, 692, 717, 757, 959, 968†, 992, 1112†, 1129, 1142, 1191  
**United States Government:**  
 Cars for Service in France, 598\*, 645\*  
 Equipment Orders, 91†, 100  
 Locomotives for Service in France, 295\*, 645\*  
 Waybill Envelope for Government Shipments, 180\*  
**United States Railway Advisory Commission:**  
 Russian Railway Situation, Henry Miller on, 979  
**University of Illinois:** Tests of Various Grades of Coal for Use in Locomotive Service, 51\*  
**Upper Berth (See Passenger Service)**

**V**  
**Valuation:**  
 Depreciation, C. A. Prouty on, 601, 1126  
 Depreciation, G. C. Hand on, 1035, 1116‡  
 Details, Eliminate Unnecessary, 1067‡  
 Elevations, A Uniform Datum for, 48†  
 Exemption of Employees, 968†, 1067‡  
 Land Valuation, Co-Operation in, 104  
 Mechanical Department Forces, Suggestions for, 132†, 141  
 Prouty, C. A., on the Texas Midland, 599, 733‡, 1123  
 Thelen, Max, on, 676†, 874†, 877‡  
**Valve, Slide** in "Type B" Ragonnet Reverse Gear, 900\*  
**Valve, Triple** for Automatic Straight Air Brake System, 697\*  
**Vanderlip, Frank A.:** Representative Commission Suggested, 1117‡  
**Vessel (See Piers)**  
**Viaduct (See Bridges and Buildings)**  
**Victory Loan Subscription:** C. P., 903  
**Virginia Bridge and Iron Company:** Car, Coal; Virginian Ry., 285\*  
**Virginian:**  
 Car, 120-Ton Coal, 285\*  
 Truck, Buckeye Freight Car, 387\*  
**Voucher (See Accounting)**

**W**

**Wabash:** Locomotive, 2-10-2 Type, 1025\*  
**Wages (See Employee)**  
**War Convention of American Business Men:** 436, 481  
**War Industries Board:**  
 Organization—Robert S. Lovett a Member, 182, 205, 395  
 Willard, Daniel, Chairman, 944, 992  
**War, The (See also Railroad's War Board):**  
 Aishton, R. H., on the Railway's Achievements, 547  
 Anti-Railway Statesmen Who Are also Anti-American, 447†  
 Army of 1,000,000, Supplies for an, 1130  
 British Railways Under Government Control, 1118  
 Car Supply and Movement for Government Shipments, 145, 179\*, 207, 450\*  
 Committee on Restoration and Employment, 361  
 Committee to Educate Disabled Employees, 204  
 Co-ordination of All Transportation Agencies, The, 1111†  
 Draft Exemption Rules, 23, 180, 251, 536, 968†, 1067‡, 1114†  
 Embarkation Camp at Tenafly, N. J., 463  
 Embarkation Service Created, 359  
 Engineering Students Exempt, 1114†  
 Furlough for Pennsylvania Employees, 61  
 German Railways as Indemnities, 131†  
 Germany's Transportation Difficulties, 296  
 Gun Transportation at the Front, 247\*  
 Holden, Hale, on, 937  
 Liberty Loan (See Liberty Loan)  
 Libraries for Soldiers, 68  
 Light Railways, 470, 500, 808\*  
 Furloughs for Pennsylvania Employees, 61  
 Locomotive Inspection Rules Modified, 434, 556  
 Military Camp Railways, 738  
 Military Railway Construction in No Man's Land, 432  
 National Army and Guard—Mobilization and Transportation of, 113, 333, 415, 450\*, 452, 566, 567\*, 608, 667, 759\*, 772, 1004, 1051, 1052  
 New York Guard Reorganized, 1172  
 Patriotic Duty to Increase Revenues, 50‡  
**Post-War Problems:** 926  
 Posters, Railroad, 517\*  
 Prisoners as Railroad Laborers, 296\*  
 Public's Co-operation, Record of, 353  
 Red Cross Refreshment Units, 417  
 Stamps, War Savings, 1100  
 Steel for Car and Locomotives, 30  
 Tax Law, 37, 56, 193, 229, 291, 416, 451, 607, 761, 903  
 Train Despatcher's Part, The, 26  
 Transportation Problem During War, 731†, 919†, 927\*, 969†, 1013†  
 Willard, Daniel, on, 263†, 274\*, 323†  
 Y. M. C. A. Work, 323†, 495\*  
**Warfield, S. Davies:** Federal Incorporation, 907, 918†, 1115‡  
**Washington Correspondence (See separate headings)**

**NEW BOOKS**

Poor's (Intermediate) Manual of Railroads, 1917, 834  
 Poor's Manual of Industrials, 373  
 Poor's Manual of Public Utilities, 49  
 Portland Cement Industry, The, 96  
 Proceedings of the American Railway Engineering Association, 326  
 Proceedings of the American Society for Testing Materials, 1114  
 Proceedings of the American Wood Preservers' Association, 4

Railroad Construction, Theory and Practice, 373  
 Railroad Valuation and Rates, 133  
 Railway Connections and Junction Points, 783  
 Railway Nationalization and the Average Citizen, 372  
 Salton Sea, The, 4  
 Shape Book, 970  
 Story of the Pullman Car, The, 4  
 Street Railway Fares, 1066  
 Wood and Other Organic Structural Materials, 970

**Z**

Zeller, Sanford M.: Southern Pine, Decay Resistance of, 888

July 1-Dec. 31, 1917]

## ELECTIONS AND APPOINTMENTS

[\* Indicates photograph and sketch. ‡ Indicates sketch only.]

- Adair, C. J., 366  
 Adams, F. A., 1059  
 Adams, George J., 964, 1008\*  
 Adams, W. K., 632  
 Adamson, William C., 560, 1142  
 Agner, R. L., 1010  
 Atchison, Clyde B., 596‡, 661\*  
 Albin, L. D., 214  
 Alexander, G. H., 44, 129\*  
 Allen, E. A., 262  
 Allen, L. B., 630\*, 828  
 Allen, L. L., 1010  
 Allen, S. G., 1055\*  
 Allison, William L., 365  
 Altom, J. M., 725  
 Alvord, E. M., 89‡  
 Ames, C. T., 1008, 1153‡  
 Amos, J. L., 322  
 Anderson, C. B., 89, 128\*  
 Anderson, George W., 597\*  
 Anderson, H. A., 778, 830‡  
 Anderson, James P., 585, 727\*  
 Anderson, J. W., 262  
 Anderson, R. E., 442  
 Andresen, B. Orum, 169  
 Andrews, R. C., 726  
 Andrews, W. H., 828  
 Anthony, C. C., 262  
 Archibald, Frank B., 720  
 Armstrong, H. J., 728  
 Armstrong, V. C., 963  
 Arntz, W. E., 489  
 Ashcraft, W. C., 914  
 Asnaul, J., 89  
 Atkins, E. G., 1153  
 Atlee, John, 778  
 Atterbury, W. W., 366, 513\*, 619, 674  
 Atwood, H. N., 322, 368  
 Augspurger, W. L., 217  
 Austill, H., 830  
 Austin, J. C., 1109  
 Austin, William L., 488  
 Auten, J. C., 218  
 Ayars, E. G., 778  
 Aydelott, J. H., 45, 129‡, 1059  
 Ayer, L. E., 631  
 Bacon, J. L., 1059  
 Bacot, D. N., 915  
 Baggett, C. C., 489  
 Bagwell, E. C., 914, 915  
 Bailes, H. E., 89  
 Bailey, J. C., 777  
 Baker, Channing B., 619  
 Baldwin, James E., 725  
 Ball, C. M., 1109, 1197‡  
 Ball, F. F., 1055, 1056\*  
 Ball, W. P., 218  
 Ballantine, N. D., 130, 1154  
 Barany, Edmund, 720  
 Barber, E. B., 725  
 Barber, J. H., 262  
 Bardo, Clinton L., 442\*  
 Bardwell, H. F., 720  
 Barker, J. A., 828  
 Barlow, H. C., 106\*  
 Barnes, Clyde E., 916  
 Barnhart, E. H., 130  
 Barrett, C. D., 90  
 Bartles, F. R., 777  
 Battley, E. R., 444  
 Bauman, E. G., 262  
 Baumgardner, H. S., 725  
 Baumgartner, J. H., 444\*  
 Bayer, H. F., 725  
 Baylies, E. M., 1105\*  
 Bean, A. P., 1154  
 Bean, W. L., 444‡  
 Beatty, P. A., 130, 916  
 Beck, L. L., 828  
 Beckwith, J. C., 90  
 Beidelman, L. P., 914  
 Beirne, A. H., 130  
 Belcher, O. R., 585, 777‡  
 Bell, F., 777  
 Bell, H. L., 171  
 Bell, J. T., 1109  
 Bell, Marcus L., 88\*  
 Bell, T. S., 217  
 Bennett, R. G., 90  
 Bennett, W. J., 585, 1060  
 Benning, F. M., 541  
 Benus, G. W., 915  
 Benzie, John, 1110  
 Berlingett, James, 366, 443  
 Bernhardt, J. E., 46‡  
 Berry, F. J., 261  
 Bessel, John H., 128  
 Betton, J. M., 912  
 Revans, M. J., 130  
 Beven, John L., 403  
 Beymer, W. D., 44, 128\*  
 Biggar, W. H., 541\*  
 Billings, C. K. G., 627  
 Bills, H. J., 1154  
 Bird, F. H., 1196  
 Birkinsha, H. E., 964  
 Bisbee, A. J., 130  
 Bissell, E. R., 827  
 Bixler, H. C., 217  
 Black, Dameron, 261  
 Blair, G. A., 1198  
 Blanchard, L. P., 128  
 Blaser, F. E., 915, 1009\*  
 Blauvelt, L. D., 541  
 Blauvelt, M. P., 44  
 Bloomfield, A. H., 489  
 Blomeyer, Edward F., 262‡, 584  
 Boardman, A. B., 488  
 Boatner, Victor V., 217  
 Bohan, W. J., 1152  
 Boomer, J. L., 871  
 Boorman, F. C., 674  
 Booth, H. F., 827  
 Booth, Walter L., 46‡, 629  
 Booth, W. H., 1110  
 Booz, H. C., 778  
 Borden, H. L., 964  
 Boschart, F. W., 368  
 Bose, John, 217  
 Bostwick, William S., 671  
 Boughner, A. E., 261  
 Bouligny, R. H., 126  
 Bourne, John D., 44\*  
 Bowen, A. C., 128  
 Bowen, L. W., 777  
 Bower, A. W., 1010  
 Bowles, F. T., 542  
 Bowman, Frank, 490  
 Boyd, G. W., 586\*  
 Boyd, Oliver T., 585, 631\*  
 Boyd, William S., 962  
 Boyle, A. A., 727  
 Bracken, E. P., 629\*  
 Brackett, J. A., 490  
 Bradley, E. E., 585  
 Bradley, F. E., 489  
 Bradley, V. J., 1197  
 Bradley, W. H., 262  
 Brady, Nicholas F., 627  
 Bramman, W. H., 774  
 Brant, H. W., 217  
 Brassard, J. H., 321  
 Brawner, C. S., 490  
 Breckinridge, B. T., 872  
 Breit, H. G., 1109  
 Brinker, J., 172  
 Brinser, C. E., 778  
 Bronnell, G., 1154  
 Brooke, Richard, 130  
 Brooks, C. E., 172  
 Brooks, Fred S., 433  
 Brooks, W. M., 404  
 Brown, A. E., 261, 1109, 1110  
 Brown, C. B., 90\*  
 Brown, E. L., 673, 689\*  
 Brown, Frank L., 540  
 Brown, George H., 916  
 Brown, H. B., 444  
 Brown, H. D., 45  
 Brown, I. M., 404, 443  
 Brown, J. L., 870, 965  
 Brown, L. S., 89, 725  
 Brown, N. R., 169  
 Brown, R. A., 404  
 Brown, R. W., 217, 630  
 Brown, S. M., 217  
 Brown, W. F., 1059  
 Browne, R. L., 962  
 Bruce, A. D., 169  
 Brunson, T. R., 586  
 Bryan, J. C., 401  
 Bryant, A., 829  
 Bryning, H. B., 726  
 Buchanan, A. E., 585  
 Buckelew, James, 542, 630\*  
 Buckingham, J. E., 1196  
 Buffington, S., 632  
 Bugg, B. L., 673, 827‡  
 Bunting, C. M., 778  
 Bunting, G. J., 44, 128\*  
 Burdett, R. J., 871  
 Burgess, T. B., 778  
 Burgman, C. P., 585  
 Burk, T. W., 489  
 Burkett, C. W., 586  
 Burkholder, C. J., 1055, 1056‡  
 Burlingame, Charles, 1152, 1153  
 Burner, W. J. Stone, 169  
 Burnett, R. W., 404, 444\*  
 Burnham, Claude G., 629  
 Burns, Clyde F., 774  
 Burns, E. J., 490  
 Burns, F. J., 217  
 Burns, S. P., 871  
 Burton, M. C., 368  
 Bush, C. A., 1153  
 Busse, F. A., 490  
 Butler, Hugh D., 869  
 Butler, J. J., 870  
 Butt, R. L., 262  
 Byers, C. H., 213  
 Byram, H. E., 498\*  
 Byrne, P. C., 585  
 Byron, A. W., 586  
 Byron, John E., 490, 830‡  
 Bryson, George D., 869  
 Cahill, M. H., 915  
 Cairns, C. A., 915, 966\*  
 Caldwell, F. T., 1008, 1010  
 Calkins, R. M., 1109\*  
 Calloway, Walter B., 1060\*  
 Calvin, W. J., 172  
 Cameron, G. S., 630  
 Cameron, E. H., 869  
 Cameron, L. O., 125  
 Camp, R. E., 321  
 Campbell, A. E., 172, 1153  
 Campbell, George H., 673  
 Campbell, O. W., 585  
 Canning, W. E., 673, 777  
 Caples, M. J., 827  
 Carlisle, J. H., 828  
 Carlson, Walter A., 674  
 Carlton, E. O., 829, 830  
 Carlton, G. R., 726  
 Carlyle, Donald L., 443  
 Carpenter, C. B., 726\*  
 Carroll, J. W., 125  
 Carscadin, Chas. A., 869  
 Carson, John A., 827, 870  
 Carry, E. F., 440, 627  
 Carter, W. H., 1197  
 Casey, E. E., 89, 261‡, 366  
 Cessford, G. E., 172  
 Chamberlin, E. J., 88, 403, 419‡, 541  
 Chambers, Edward, 130‡, 433  
 Chandler, C. R., 916  
 Chapman, A. P. Jr., 217, 829‡  
 Chapman, L., 262  
 Charles, S. H., 443, 827  
 Charske, F. W., 725  
 Chassell, D., 718, 911  
 Cheney, F. C., 322  
 Cheyney, George S., 777  
 Chipley, L. B., 828, 829  
 Chisholm, William, 827  
 Chittenden, W. A., 629, 827  
 Choate, W. G., 914  
 Christie, A. R., 542  
 Christoffer, C. S., 404‡, 1153  
 Christopher, C. E., 674  
 Christy, George C., 172  
 Chubb, C. E., 321  
 Church, S. L., 218  
 Clancy, M. M., 822  
 Clapper, L., 1154  
 Clark, Arthur B., 367\*  
 Clark, Charles S., 85  
 Clark, C. C., 1109‡  
 Clark, C. N., 726  
 Clark, D. J., 489  
 Clark, F. M., 630, 725\*  
 Clark, J. C., 1058  
 Clark, J. J., 965  
 Clark, R. S., 1059  
 Clark, T. J., 778  
 Clarken, T. J., 403  
 Class, A. T., 489  
 Clegg, C. B., 46  
 Clement, Don L., 869  
 Clemons, Ezra, 1153  
 Clewer, H., 1110  
 Clift, Albert E., 217\*  
 Close, J. L., 777  
 Clum, L. V. R., 489  
 Cochran, C. W., 490  
 Cochrane, A. L., 778  
 Cochrane, J. A., 964  
 Codding, George A., 541  
 Coe, G. S., 218  
 Coe, T. W., 778  
 Coffin, Charles A., 627  
 Coffin, C. W. F., 1055, 1056\*  
 Coffin, J. S., 1055\*  
 Colby, D. S., 89  
 Coleman, F. O., 726  
 Coleman, P. J., 1152  
 Collins, C. A., 262  
 Collins, George, 915, 965‡  
 Colvin, O. D., 822  
 Condon, John M., 871  
 Conger, K. B., 488  
 Conn, George C., 674  
 Connell, T. J., 322  
 Connolly, C. S., 965  
 Connolly, F., 1110  
 Connolly, J. P., 366  
 Cook, F. J., 322  
 Cook, G. H., 632  
 Cook, Howard P., 214  
 Cook, R. A., 172  
 Cook, T. J., 872  
 Cook, W. O., 1060  
 Cooper, F. R., 214  
 Cooper, G. A., 125  
 Cooper, W. M., 490  
 Coppell, Arthur, 870  
 Corkill, W. A., 261  
 Correll, E. J., 217  
 Corrigan, G. W., 830  
 Cosner, F. D., 262  
 Coughlin, W. G., 218  
 Coulter, J. W., 916  
 Councilman, H. J., 89  
 Covert, W. T., 778, 1110\*  
 Cowan, W. A., 89, 90  
 Coyle, Walter H., 1055, 1056\*  
 Cox, J. A., 585  
 Crabtree, E. W., 218  
 Cram, Wingate F., 870  
 Crane, A. H., 216  
 Crane, T. O., 1109  
 Crawford, C. H., 966  
 Crawford, P. P., 1008  
 Crawley, M. D., 869  
 Cross, C. W., 720  
 Creager, C. H., 778  
 Crist, W. H., 217  
 Croll, R. B., 725  
 Crolley, B. F., 778  
 Crosby, B. L., 542  
 Cross, A. A., 829  
 Crounse, L. A., 321  
 Crownover, G. M., 585  
 Cullen, George A., 130  
 Cummins, W. D., 828  
 Cunliffe, G. A., 871  
 Cunningham, D. G., 727, 1010  
 Cunningham, W. J., 725  
 Curry, J. L., 1110  
 Cushing, A. T., 261  
 Cuthbert, A. B., 915, 916  
 Cutler, Burwell S., 671‡  
 Cutts, A. B., 262‡  
 Daily, Maurice, 1197  
 Daily, J. G., 45  
 Dalton, E. L., 404  
 Dalton, J. F., 218  
 Dana, Burt E., 260  
 Dancy, C., 585  
 Danehey, C. J., 368  
 Danforth, W. A., 870  
 Daniels, J. W., 725, 827, 828\*  
 Daniels, W. R., 726  
 Davey, T. S., 1060  
 Davids, C. N., 542, 778, 830  
 Davidson, Arthur N., 218‡  
 Davidson, W. R., 443  
 Davis, B. H., 542  
 Davis, H. R., 828  
 Davison, G. W., 627  
 Davisson, W. H., 213  
 Dawley, A. A., 542  
 Dayton, W. H., 42  
 Deakins, W. D., 216  
 Deats, G. W., 1060  
 De Bernardi, Albert, 45\*, 1109  
 Deets, John D., 726  
 Deevors, L. R., 628  
 De France, W. H., 726  
 De Graff, George W., 366  
 De Groot, E. H., Jr., 89, 106\*  
 Deimling, J. F., 90  
 Delaney, J. A., 1060, 1154  
 Deeming, Herbert, 126\*  
 Dempsey, C. E., 630  
 Deneen, J. W., 216, 871, 915, 1009‡  
 Denney, C. E., 250, 827, 914\*  
 Denison, Dexter M., 262\*  
 Deverell, A. C., 778  
 Deverell, F. A., 321  
 De Vilbiss, E. B., 728  
 Dewart, H. M., 1060  
 Dewey, E. M., 261  
 De W. Sampson, A., 829  
 Dezonja, H. B., 403  
 Dibblee, W. C., 915  
 Dice, Agnew T., Jr., 870  
 Dickenson, E. R., 88  
 Dickerman, W. C., 86  
 Dickie, John, 673  
 Dickson, George F., 261  
 Diessl, J. L., 490  
 Dietrich, C. H., 870  
 Diven, J. B., 585  
 Dix, L. E., 1154  
 Doar, F. M., 1197  
 Dobbie, J. C., 489  
 Doddridge, P. B., 1009  
 Donahue, F. H., 368  
 Donaldson, Morley, 321‡  
 Donnat, C. F., 261  
 Do Sola Mendes, A., 261  
 Doud, Willard, 85  
 Dougherty, G. H., 726  
 Doughty, John P., 1008  
 Douglas, J. S., 366, 673  
 Douglas, H. T. Jr., 172  
 Douelas, W. C., 872  
 Doulin, W. N., 128, 541  
 Dow, F. C., 172  
 Dowie, E. J., 1059  
 Dowling, H. G., 130  
 Dowling, J. J., 778  
 Downs, L. A., 216  
 Downs, W. A., 403  
 Dozier, R. M., 777  
 Drew, W. B., 128  
 Du Belle, C. S., 489  
 Du Bosque, F. L., 217  
 Dudley, George, 872  
 Duff, J. H., 89  
 Duffy, H. T., 130  
 Duffy, John, 914  
 Duncan, W. G., 45, 1152  
 Dunham, W. E., 262  
 Dunn, F. W., 828  
 Dunn, Morrill, 822  
 Duperow, W. E., 542, 585\*  
 Durkin, T. F., 965, 1008

- Durrett, J. L., 872  
 Dye, I. K., 262
- Eades, Charles V., 487  
 Eakin, Spencer, 404  
 Earling, A. J., 499\*  
 Early, G. G., 261, 262  
 Easley, F. J., 1152  
 East, John L., 443  
 Eaton, W. H., 674  
 Eckard, W. H., 777  
 Eddy, S. A., 1153  
 Eddy, W. J., 1110  
 Edgell, T. S., 490  
 Edmonds, A. S., 130  
 Edwards, J. H., 1110  
 Edwards, J. P., 830  
 Egbers, G. F., 1110  
 Egner, Clement M., 822  
 Eich, H. C., 585, 632, 674\*  
 Eicholtz, H. M., 777, 965‡  
 Eldridge, W. W., 1010  
 Elfstrom, Philip R., 218  
 Ellet, A. L., 915  
 Elliott, C. G., 585  
 Elliott, F. S., 777  
 Elliott, Howard, 171  
 Elmquist, Charles E., 911, 992  
 Emerson, George H., 778  
 Empie, H. A., 322  
 Enger, J. E., 172  
 Ennis, C. E., 169  
 Ennis, W. C., 172  
 Epler, J. E., 632  
 Esch, J. F., 830  
 Evans, A. L., 727  
 Evans, Harry M., 1055, 1056‡  
 Everheart, H. E., 490  
 Ewing, Charles H., 1058, 1109\*  
 Ewings, C. H., 44
- Faherty, T. K., 778  
 Falck, F. M., 1059  
 Faries, Robert C., 778  
 Farmer, R. E., 128  
 Farraday, W. H., 778  
 Farrell, O. W., 368  
 Farrington, J. D., 45  
 Fauchette, W. D., 218  
 Faye, Harold K., 172, 218\*  
 Feakins, George W., 44‡  
 Feemster, J. L., 90  
 Fell, H. L., 915, 1009‡  
 Fellows, L. L., 915  
 Felton, Samuel M., 160  
 Fennessy, F. H., 827  
 Ferguson, John L., 915, 965\*  
 Fenner, William H., 490, 1010  
 Field, F. A. W., 870  
 Findlay, P. G., 489, 631‡  
 Finlay, James, 630  
 Finnel, Woolsey, 830  
 Fisher, A. B., 725  
 Fisher, Edward C., 401  
 Fisher, J. B., 217  
 Fisher, P. L., 88  
 Fitzgerald, J. M., 582  
 Fitzgerald, L. C., 1060  
 Fitzmartin, J. J., 217  
 Fitzpatrick, R. B., 217  
 Flanigan, M. J., 777, 778  
 Flath, Otto S., 582  
 Fletcher, J. B., 725  
 Fogarty, S. C., 130  
 Fogg, W. H., 489, 542\*  
 Foley, Thomas J., 216\*  
 Ford, E. I., 45  
 Ford, T. S., 583  
 Ford, W. H., 630  
 Foster, G. H., 89  
 Foster, W. H., 630, 828‡  
 Fox, T. S., 366  
 Franklin, Walter S. Jr., 965, 1010\*  
 Fraser, J. H., 1197  
 Fraser, Thomas, 90  
 Frates, J. A. Jr., 965  
 Freeman, J. T., 725  
 Freeman, W. R., 541, 914  
 Frelinghuysen, G. G., 963  
 Freund, H. E., 915  
 Frieberger, A. A., 1152  
 Fries, Archibald, 1060\*  
 Fritz, John, 1152  
 Frohman, L. C., 218, 404‡  
 Froyd, E. A., 322  
 Fuller, W. F., 45, 777, 965  
 Fulmor, J. H., 585
- Gabriel, H. E., 673, 674  
 Gaines, F. F., 490, 1010  
 Galligan, C. W., 631, 674\*  
 Galloway, C. L., 582  
 Gamble, E. L., 217  
 Gannon, Frank S., 366  
 Gannon, G. F., 673  
 Ganter, C. R., 488  
 Gardner, E. E., 128  
 Gargan, H. M., 261  
 Garret, H. S., 1109  
 Gaskill, C. S., 90  
 Gavin, F. J., 777  
 Gay, C. E. Jr., 366  
 Gaynor, E. W., 216  
 Geoghegan, T. D., 542, 829\*  
 Gibbs, Frederick T., 443  
 Gibson, H. D., 125  
 Gibson, J. J., 542
- Gifford, H. E. Jr., 720  
 Giles, W. F., 629, 827\*  
 Gilhoula, P. F., 403  
 Gilland, James M., 870  
 Gillen, U. E., 442\*, 443  
 Gillette, Sherman H., 46\*  
 Gillick, J. T., 44, 89\*, 828  
 Gillingham, Albert J., 403  
 Gillingham, W. J., 169  
 Gist, A. A., 403, 489  
 Givens, John D., 540  
 Glidden, F. A., 1105  
 Goodbody, Thomas P., 366  
 Goodfellow, John, 366  
 Goodnow, C. A., 44, 88\*  
 Gordon, C. R., 828  
 Gorton, J. B., 171  
 Gould, A. R., 1010  
 Gould, Edwin, 489  
 Grace, F. W., 443  
 Graeser, H. J., 829  
 Graham, E. J., 727  
 Grahame, A. W., 368  
 Grainger, J. E., 366  
 Grammes, R. A., 367  
 Granlee, H. B., 965  
 Grant, F., 322  
 Grant, J. M., 322  
 Graves, Alan W., 915  
 Gray, A. J., 90  
 Green, C. E., 367  
 Greene, R. E., 964  
 Greene, W. F., 322  
 Greenfield, S., 126  
 Greenough, Grafton, 488  
 Greer, B. B., 541, 629\*, 914  
 Greiner, W. L., 727  
 Greiser, Joseph, 542  
 Grenoble, Harry W., 216  
 Griffen, C., 322  
 Griffin, F. R., 321  
 Griffin, M. J., 965  
 Griffin, W. C., 489  
 Griggs, C. E., 128  
 Griggs, G. L., 1059  
 Grimshaw, F. G., 90, 172\*  
 Grimshaw, H. B., 915  
 Grisinger, J. C., 965  
 Grizzard, H. M., 725  
 Gross, J. M., 727  
 Grove, F. L., 368, 584\*, 585  
 Groves, John A., 1109  
 Gruber, J. M., 777  
 Guion, C. H., 1198  
 Gumbes, Joseph H., 367\*  
 Gurney, T. H., 915, 1010‡  
 Gutelius, F. P., 216  
 Guthheim, A. G., 106\*
- Hackenberg, E. J., 777, 871‡  
 Hackenberg, J. C., 778  
 Hagedbarger, B. H., 367  
 Hagerman, O. H., 89  
 Haines, F. E., 45  
 Hair, C. E., 725, 827\*  
 Hall, Alfred R., 404  
 Hall, E. C., 262  
 Hall, Herbert F., 1109  
 Hall, L. A., 125  
 Hall, N. H., 368  
 Halliwell, C. J., 586  
 Hallstead, F. N., 128  
 Hamilton, L. F., 1007  
 Hamilton, Thomas A., 126  
 Hamilton, T. A., 1152  
 Hamilton, T. J., 172  
 Hamilton, W. C., 777  
 Hamilton, W. H., 916  
 Hammann, F. E., 1154\*  
 Hammill, F. H., 777, 828\*  
 Hammond, A. B., 674  
 Hammond, G. O., 444, 490\*  
 Hanes, E. D., 443  
 Hanlin, J. J., 130, 322\*  
 Hanna, E. E., 827  
 Hansen, O. H., 490  
 Hanssen, F., 172  
 Harden, Merle F., 88  
 Harden, Walter C., 1009, 1153\*  
 Hardy, W. E., 1154  
 Hardin, W. M., 262, 321\*  
 Harlan, George S., 585  
 Harman, E. H., 1152, 1197\*  
 Harper, Arthur P., 169  
 Harris, E. J., 1010  
 Harris, J. B., 828  
 Harrison, W. R., 916  
 Harshaw, V. A., 914  
 Hart, P. C., 828  
 Hartly, John J., 720  
 Hartley, B. H., 322  
 Harvey, H. L., 262  
 Haskell, A. C., 489  
 Hasse, O. A., 1105\*  
 Hastings, Guy R., 869  
 Haupt, C. W., 1198  
 Havens, C. W., 217  
 Havens, P. M., 443, 585  
 Hawkins, C. A., 541  
 Hawkins, R. Dr., 778  
 Hawkins, W. C., 262  
 Hawks, E. A., 869  
 Hawks, George F., 827  
 Hayden, T. J., 366  
 Haylow, W. J., 217, 1008  
 Hays, Samuel J., 217  
 Haywood, T. G., 822
- Hazelton, Hugh, 42  
 Heaman, J. A., 916, 1198\*  
 Heath, Charles F., 870  
 Heeran, W. T., 1154  
 Heffelfinger, A. E., 440\*  
 Heintz, L. O., 1008  
 Henderson, G. C., 1109  
 Hendley, C. M., 216  
 Hendricks, J. T., 172  
 Henry, John M., 728\*  
 Herbert, J. M., 463\*, 489  
 Herrick, Myron T., 627  
 Herriman, F. E., 404  
 Herrman, B. W., 130  
 Hert, J. C., 674  
 Hibbard, G. W., 217  
 Hibbits, F. N., 632  
 Hibbs, O. C., 1059, 1109‡  
 Hitchman, L. P., 1153  
 Hickley, E. L., 1109  
 Hickley, G. L., 1197  
 Hickley, J. F., 261  
 Hickman, E. L., 1153  
 Hickox, Norman B., 869  
 Hickson, Joseph W., 321  
 Higgins, H. C., 367  
 Highland, R. J., 965  
 Hill, E. L., 1058  
 Hill, F. G., 1153  
 Hill, W. A., 586  
 Hillman, F. W., 778  
 Hiltz, Robert M., 366  
 Hitchcock, W. D., 1110  
 Hix, W. E., 1058  
 Hixon, G. O., 490  
 Hoax, G. A., 915, 1008‡  
 Hoard, R. E., 443  
 Hoban, M. P., 218  
 Hobbs, F. S., 630  
 Hodapp, F., 778  
 Hodge, Henry W., 117, 167  
 Hoff, Frank C., 217  
 Hogan, E. D., 88  
 Hoelund, H. J., 45  
 Hohn, F. C., 322  
 Holaday, S. C., 488  
 Holbrook, Percy, 963  
 Holcomb, H. H., 674, 727\*  
 Holland, F. H., 490  
 Hollingshead, F. E., 674, 829‡  
 Holly, W. G., 726  
 Holmes, C. H., 628  
 Holmes, H. B., 404, 632  
 Holmes, L. L., 440  
 Holmes, Tyler L., 126  
 Holtorf, C. C., 1152  
 Homsher, R. S., 725  
 Hood, M. A., 965  
 Hook, E. E., 368  
 Hooper, S. U., 217  
 Hoops, D. H., 1154‡  
 Hoops, E. H., 1010  
 Horn, J. Howard, 720  
 Horton, E. M., 171  
 Horsburgh, R. H., 1105\*  
 Howard, C. C., 322  
 Howard, James K., 307‡, 1151\*  
 Howard, N. L., 45  
 Howard, P. L., 915  
 Howard, W. H., 586, 632\*  
 Howe, Carl, 489, 631\*  
 Hoyt, John S., 86  
 Huber, F. A., 777  
 Hubert, Conrad, 627  
 Hudson, W. R., 828  
 Huggins, A. C., 726  
 Hughey, G. D., 322  
 Humphrey, W. G., 1197  
 Hungerford, S. T., 870, 965\*  
 Hunsacker, C., 169  
 Hunter, John H., 366  
 Hunter, J. W., 262  
 Huntley, F. P., 214, 440\*  
 Huntley, L. R., 871  
 Hurtt, C. H., 488  
 Hutchinson, J. B. Jr., 777, 1058\*
- Imbrie, James, 366  
 Ingalls, G. H., 489  
 Irwin, J., 871  
 Isherwood, J., 629
- Jackson, H. A., 915  
 Jackson, J. R., 542, 1198  
 Jamison, W. O., 490  
 Jasperson, Fred, 966  
 Jeffers, William M., 44\*  
 Jeffries, J. C., 46  
 Jenkins, F. L., 322  
 Jenkins, H. G., 1152  
 Jenks, C. O., 777  
 Jenks, Major P. G., 775  
 Jennings, A. J., 586  
 John, E. B., 368, 403‡  
 Johnson, Alba B., 488  
 Johnson, A. S., 1153, 1197\*  
 Johnson, B. B., 89  
 Johnson, B. O., 777  
 Johnson, G. E., 827  
 Johnson, John M., 171\*
- La Bertew, M. C., 777  
 La Bue, F., 322  
 Lackey, A. B., 1010  
 Lackey, O. B., 490  
 Lacy, E. W., 1008  
 Lafler, C. W., 367  
 Laidlow, R. E., 585  
 Laird, H. G., 916  
 Laird, P. D., 213  
 Lamb, J. M., 585  
 Lamb, M. B., 45, 1059, 1198‡  
 Lamers, William E., 725  
 La Moure, W. T., 1059\*  
 Lane, William T., 1055, 1057  
 Langhurst, E. J., 778  
 Langton, S. F., 130  
 Lantry, T. H., 914  
 Large, J. B., 727\*, 965  
 Larsen, L. A., 85, 1055\*  
 Latham, T. R., 403  
 Lavalle, J. L., 1010  
 Lawless, Edward, 728  
 Lawmaster, A. T., 45  
 Lawrence, F. J., 1059

July 1-Dec. 31, 1917]

## ELECTIONS AND APPOINTMENTS—Continued

[Illustrated articles are indicated thus \*; Editorials thus †; Letters to Editor thus ‡.]

- Lawrence, T. L., 674  
 Lawson, A. C., 727  
 Leahy, M. R., 1154  
 Leahy, W. J., 262  
 Leake, Stuart C., 46  
 Leamy, M. F., 321  
 Leard, H. S., 218  
 Learoyd, A. S., 828  
 Leavitt, E. B., 262  
 Le Bron, L. P., 490  
 Leckie, A., 872  
 Lee, Arthur, 216  
 Lee, Charles E., 822  
 Lee, Elisha, 366  
 Lee, Frank, 1010  
 Lee, R. E., 1060  
 Leech, R. M., 914  
 Leith, F. A., 89, 129‡, 965  
 Leith, W. E., 262  
 Lemmen, W. W., 1060  
 Lennon, S. J., 44  
 Leverich, C. E., 827  
 Lewis, Arthur S., 365  
 Lewis, F. E., 1154  
 Lewis, H. S., 725  
 Lillard, M. H., 404  
 Lilley, E. C., 1152  
 Lindbergh, S. G., 321  
 Link, C. V., 725, 1010  
 Lockard, B. M., 674  
 Lockwood, W. M., 83  
 Lodge, M. G., 125  
 Loftis, J. R., 965  
 Long, S. S., 777, 778  
 Longaker, N. S., 585  
 Longfield, F. B., 725  
 Loomis, Archibald G., 442\*  
 Lord, Irving P., 1109  
 Loree, James T., 216  
 Lorenz, F. A. Jr., 401  
 Lorenz, M. O., 83  
 Louer, Lewis S., 487  
 Love, L. S., 1151  
 Lovett, Robert S., 182, 351\*  
 Lovejoy, E. L., 89  
 Lowes, W. E., 1059\*  
 Lowmaster, A. T., 828  
 Lowry, T. F., 777  
 Loyd, F. I., 1008  
 Ludington, C. F., 1154  
 Luke, P. B., 88  
 Lumpkin, B. H., 404  
 Lutz, S. G., 171, 216\*  
 Lyman, L. B., 629, 630\*  
 Lynch, C. D., 89  
 Lynch, W. M., 828  
 Lynch, W. M., 726  
 Lynn, W. H., 367  
 Lyon, Chester A., 671  
 Lyons, F. W., 673, 870  
 McAdoo, Wm. G., 1170  
 McCabe, D. T., 1058  
 McCaughan, Bayliss, 490  
 McCaleb, W. B., 777, 1009\*  
 McCall, H., 871, 914  
 McCarra, W. F., 90  
 McCarthy, H., 726  
 McCarthy, P. J., 130  
 McCarty, E. E., 489  
 McCarty, O. P., 1060  
 McCarty, R. J. Jr., 541  
 McClellan, A. W., 778  
 McClelland, A. W., 777  
 McComb, J. de N., 444  
 McComb, J. M., 540  
 McConnell, J. S., 130  
 McCrea, A. M., 488  
 McCrea, J. A., 673, 778  
 McCuaig, D. J., 90  
 McDaniel, M. S., 966  
 McDonald, A., 444  
 McDonald, F. P., 172  
 McDonald, R. J., 870  
 McDonell, J. J., 89  
 McEniry, M. H., 261  
 McGarry, W. J., 1152  
 McGee, H. E., 128, 443, 673  
 McGlogan, J. H., 914  
 McGraw, J. R., 778  
 McGuirk, Charles W., 542  
 Melvaine, C. L., 728, 830\*  
 McIlver, B. T., 1154  
 McInery, James E., 822  
 McIntyre, R., 725, 914\*  
 McKay, A. W., 914  
 McKee, J. L., 541, 585  
 McKen, Benjamin, 1058  
 McKibbon, J. S., 541  
 McKinley, J. B., 128  
 McKinstry, William B., 88‡  
 McKirahan, P. T., 1154  
 McKnight, T. H. B., 128  
 McLaughlin, T. M., 89  
 McLean, W. J., 490  
 McLeod, J. L., 321  
 McMahon, W. J., 727  
 McManus, P. L., 403, 1197  
 McMillan, F. S., 490  
 McMillan, W. N., 86  
 McMillin, C. C., 727  
 McMorris, W. L., 90  
 McMurry, W. L., 1060  
 McNamara, D., 490  
 McNamar, R., 128  
 McNaughton, James, 488  
 McNeillie, J. K., 542, 725  
 McPartland, M. B., 727  
 McPhee, F. N., 172  
 McPherson, Edgar S., 366‡  
 McShane, J. T., 45, 128‡  
 McSwiney, W. F., 489  
 Macbeth, H. A., 778  
 MacDonald, R. H., 443  
 MacKenzie, A. C., 1010  
 Mackrille, A., 827  
 MacLaren, M. F., 777, 778  
 MacMillan, R. M., 1008  
 MacPherson, R. A., 871  
 MacSwain, F. B., 586  
 Madden, T. W., 586  
 Maedel, Arthur, 1110  
 Magers, E. L., 1152  
 Maguire, J. F., 442  
 Maher, H. H., 216  
 Maher, John L., 262  
 Mahoney, Lewis C., 777‡  
 Maier, Carl R., 583  
 Main, H. J., 965  
 Manby, H. R., 489  
 Mancekivell, F. A., 130  
 Maney, Thomas, 404  
 Manley, Chas., 728, 916‡  
 Mann, O. H., 172  
 Mann, Ross B., 630  
 Manning, C., 583  
 Manson, E. C., 1197  
 Markham, M. C., 130  
 Marks, G., 629, 673  
 Marsh, F. E., 586  
 Marshall, A. R., 914  
 Marshall, Charles, 44, 217  
 Marshall, E. F., 965  
 Marshall, R. S., 726, 915  
 Marshall, T. H., 870  
 Martin, E. H., 89  
 Martin, K. G., 169  
 Martin, N. M., 322  
 Martin, Robert H., 368  
 Martin, T. A., 1152  
 Marwick, Paul T., 586  
 Masson, L. J., 1008  
 Mathes, L. D., 172  
 Matt, G. E., 964  
 Matthews, R. T. G., 443  
 Maver, A. A., 444  
 Maxfield, H. H., 90  
 Maxwell, A. D., 130  
 May, H. B., 443  
 May, H. C., 585, 632  
 Mayne, C. L., 725, 827  
 Mays, Floyd, 217  
 Meeder, W. R., 90  
 Mehlan, W. C. C., 914  
 Mellen, John, 1010  
 Mendall, J. M., 778  
 Meredith, F., 1110  
 Meredith, H. P., 775‡, 778  
 Mertz, M. L., 1109  
 Meyer, B. H., 1150  
 Meyer, E. C., 916  
 Meyers, W. J., 83, 629  
 Millar, Alexander, 128  
 Miller, Allen R., 1007  
 Miller, F. B., 726  
 Miller, F. M., 828, 830  
 Miller, Hugh, 368  
 Miller, H. L., 488  
 Miller, H. W., 673  
 Miller, I. A., 778  
 Miller, R. D., 1010  
 Milliken, A. P., 870  
 Milner, B. B., 46  
 Mitchell, W. S., 915  
 Mitchener, R. W., 828, 871\*  
 Mitchell, F. B., 217, 630  
 Mitchell, W. C., 725  
 Mobley, W. E., 368  
 Moebbeck, L. L., 1110  
 Moffatt, B. F., 262, 322‡  
 Moffett, Harry L., 777  
 Moler, A. L., 322  
 Molitor, F. A., 260  
 Morris, W. L., 727  
 Montmorency, F., 674, 829\*  
 Mooney, Frank T., 403  
 Moony, W. R., 630  
 Moore, A. J., 1153  
 Moore, E. J., 1154  
 Moore, E. D., 1152  
 Moore, E. S., 44, 129‡  
 Moore, G. F., 261  
 Morecock, J. B., 674  
 Moreton, Geo. W., 962  
 Morgan, C. A., 727  
 Morgan, Herbert G., 585, 632\*  
 Morgan, R. L., 822  
 Morrill, Maier R. F., 368  
 Morrill, C. H., 1153  
 Morrill, C. R., 321‡  
 Morris, John F., 964  
 Morris, L. V., 673  
 Morris, Walter R., 260  
 Morris, W. B., 322  
 Morrison, L. G., 1010  
 Morrison, J. A., 217, 404‡  
 Morse, W. E., 541, 914  
 Moses, L. B., 1057  
 Mosher, Geo. H., 869  
 Moss, T. B., 1009  
 Moylan, W. J., 726  
 Muchall, H. H., 46‡  
 Mudge, H. U., 673  
 Mueller, R. A., 914  
 Mueller, W. C., 916  
 Mugan, D. B., 42  
 Muir, J. C., 172, 262, 366  
 Mulhern, J. W., 726\*  
 Mull, Howard C., 365  
 Muller, Charles, 487  
 Mulquin, E. T., 585  
 Munro, David A., 85‡  
 Munster, August W., 46‡  
 Murdock, L. O., 45  
 Murphy, E. R., 88  
 Murphy, J. J., 128  
 Murray, G. C., 727  
 Murray, Major Robert H., 774  
 Murray, H. T., 629  
 Murray, J. C., 727, 728  
 Mutchler, C. B., 871  
 Nase, A. W., 443  
 Nash, E. E., 777  
 Needham, H. L., 172  
 Neff, Nettleton, 89  
 Neff, W. N., 914, 1009\*  
 Neilson, George W., 827  
 Nelson, C. G., 489  
 Nelson, J. A., 964  
 Nethercut, Edgar S., 130, 542‡  
 Netherland, C. L., 872  
 Newbury, E. H., 586  
 Newhouse, B., 914  
 Newman, W. A., 322  
 Nicholas, J. D., 871  
 Nicholas, R. H., 1154  
 Nichols, D. E., 216  
 Nichols, Mongin B., 88  
 Nicholson, Macy, 828  
 Nicholson, Samuel L., 42\*  
 Nickerson, E. H., 872  
 Niemeyer, C. H., 218  
 Nolan, J. W., 321  
 Norman, C. P., 1198  
 North, George B., 307  
 Northam, M. P., 490  
 Northrup, C. F., 368  
 Norton, Edward, 130  
 Norton, J. H., 90  
 Norton, R. S., 726  
 Nowell, Charles H., 88  
 Nutting, A. G., 262  
 O'Boyle, J. C., 404  
 O'Brien, F., 777  
 O'Brien, William, 172  
 Ocheltree, C. E., 777  
 O'Connell, Frank A., 368  
 Ocumpaugh, Frank, 962‡  
 O'Donnell, Richard L., 367\*  
 O'Donnell, E. A., 261, 1197  
 O'Dwyer, W. L., 542  
 Ogilvie, A. B., 490  
 O'Leary, L. E., 829  
 Oliver, G. L., 542  
 Omohundro, G. V., 1153  
 Ormsby, J., 172  
 Orr, W. M., 1154  
 Osborne, Chas. E., 829  
 Osborne, L. A., 42  
 Osgood, H. A., 44‡  
 Ostby, Oscar F., 774\*, 962, 1196  
 Ouellet, D. O., 1153  
 Oviatt, H. C., 630, 673  
 Owen, Galen B., 966  
 Owens, E. E., 673  
 Paff, George A., 869  
 Palmer, W. K., 440  
 Pardoe, A., 1152  
 Park, W. L., 827  
 Parker, A. M., 542, 584\*  
 Parker, F. J., 321, 828, 872  
 Parker, H. M. B., 582  
 Parks, R. G., 726  
 Parmelee, James, 627  
 Parrish, F. J., 218  
 Parslow, Samuel R., 172  
 Parsons, R. S., 964\*  
 Parsons, W. R., 367  
 Patterson, John B., 777  
 Patterson, M. A., 585, 829\*  
 Payne, N. B., 1151  
 Pearce, A. A., 828  
 Pearce, E. S., 1060, 1198‡  
 Peck, C. E., 1010  
 Peck, G. L., 1058  
 Pedrick, William, Jr., 585  
 Peebles, Howell, 489  
 Pelham, J. P., 1058  
 Pelley, John J., 216\*, 217  
 Penney, A. M., 1109  
 Penwarden, G. W., 965  
 Perkins, F. R., 964  
 Perry, H. B., 1059, 1060, 1197  
 Perry, Oran, 44  
 Peters, Ralph Jr., 673  
 Petersen, W. C., 778  
 Peterson, A. C., 965  
 Peterson, G. B., 490  
 Pettit, G. R., 322  
 Peyton, W. T., 1058  
 Phelan, J. P., 172  
 Phelps, C. B., 1008  
 Phelps, M. L., 541  
 Philippe, B. P., 778  
 Pickens, J. C., 966  
 Pierce, G. C., 488  
 Pigott, William, 822  
 Pill, L. M., 830  
 Pinkham, R. H., 778  
 Piper, G. R., 368  
 Place, P. N., 1059  
 Poindexter, F. L., 828  
 Polley, L. E., 130  
 Poole, C. H., 218  
 Portel, Patrick, 915  
 Post, F. H., 870  
 Post, W. M., 262  
 Potts, R., 916  
 Powell, Victor U., 632, 728  
 Pratt, C. B., 1008  
 Prentice, T. M., 827  
 Preston, Fred A., 822  
 Price, Thomas, 128  
 Price-Green, C., 915  
 Pringle, Norman W., 1154\*  
 Prior, J. H., 214  
 Pugh, Wm. H. Jr., 488  
 Putnam, F. W., 911, 1053\*  
 Putnam, H. St. Clair, 42  
 Quigley, Thomas J., 403  
 Quinn, F. X., 727  
 Quirk, W. H., 126  
 Radford, Robert, 488  
 Rafferty, C. D., 90  
 Ramsey, E. M., 674  
 Randall, G. C., 1152  
 Randolph, J. L., 1055, 1056\*  
 Ranney, F. G., 443  
 Ransome, A. W., 540  
 Ray, D. L., 726  
 Reagan, F. H., 542  
 Reagan, J. H., 490  
 Reaph, Joseph V., 542  
 Reddig, H. F., 1008  
 Redmond, A. V., 90  
 Reece, A. N., 632  
 Reed, Fayette H., 671  
 Reed, F. D., 1060  
 Reed, H. L., 1008  
 Reed, R. R., 128  
 Reed, T. L., 322  
 Reeder, George, 584  
 Reid, J. W., 172, 444  
 Reifsnyder, John M., 213  
 Reily, J. F., 828  
 Reynolds, C. E., 128  
 Reynolds, E. R., 586, 631  
 Reynolds, M. L., 1152  
 Rhoades, I. O., 1110  
 Rhysburger, D. C., 218  
 Richardson, H. J., 487  
 Ricketson, W. E., 1060, 1110‡  
 Ricks, Jesse J., 627  
 Riegel, F. F., 827  
 Rieger, P. J., 44  
 Rimlinger, C. L., 822  
 Ringling, John, 1152  
 Rittenhouse, W. E., 321  
 Ritter, Charles, 216  
 Robb, W. D., 442\*  
 Robbins, F. G., 1198  
 Robbins, F. S., 90  
 Roberts, Warren R., 774  
 Robins, F. F., 404  
 Robinson, H. C., 630  
 Roddie, E. C., 728  
 Rodgers, J. G., 541, 583\*  
 Roe, John, 777  
 Rogers, H. S., 322  
 Rogers, T. L., 488  
 Rolfe, Charles E., 1009  
 Romoser, W. H., 914  
 Rooks, William A., 88  
 Root, L. F., 585  
 Rose, J. J., 130  
 Rosengren, G. F., 586  
 Ross, G. J., 44  
 Ross, William H., 214  
 Rourke, G. W., 1008  
 Rouzer, E. R., 403  
 Rowell, F. B., 872  
 Rowley, F. B., 727  
 Rudd, A. H., 218  
 Ruff, B. Z., 368  
 Ruffier, Augustus E., 870  
 Ruggles, H. E., 629  
 Ruhl, H. T., 90, 130‡  
 Rundle, W. Everitt, 42  
 Runey, F. J., 89  
 Runnette, Wilson, 366

- Runyon, F. C., 963  
 Rupert, C. H., 631  
 Rupp, P. L., 1153  
 Russell, H. H., 777  
 Russell, James, 443, 870, 914  
 Russell, John B., 872  
 Rutledge, R. A., 778  
 Ryan, R. E., 726, 871‡  
 Ryan, Thomas, 632  
 Salmon, J. M., 490  
 Sample, W. H., 444, 586\*  
 Sanborn, F. E., 89, 129\*  
 Sanctuary, E. N., 582  
 Sanders, A. W., 262  
 Sappenfield, E. C., 89  
 Sattley, E. C., 775  
 Saul, Thomas W., 130  
 Savage, John R., 673, 915\*  
 Sawyer, Mott, 1153  
 Scannel, W. W., 965  
 Schaeffer, W. L., 1007  
 Schanck, F. W., 442  
 Scheer, E. W., 630  
 Scheer, G. F., 1154  
 Scheffey, Ralph N., 366  
 Schlacks, W. J., 962\*  
 Schmidt, E. J., 965  
 Schneider, G. A., 1105  
 Schoenky, O. B., 778  
 Schofield, D. S., 586  
 Schoonmaker, J. M., 128  
 Schreck, I. C., 1197  
 Schultz, F. W., 727  
 Schum, H. S., 90  
 Scofield, H. L., 1109  
 Scott, George E., 125  
 Scott, J. M., 915, 1008\*  
 Scott, Robert E., 728, 872\*  
 Scott, Thomas, 322  
 Seemuth, W. F., 368  
 Sefton, Robert J., 726  
 Selden, M. C., 1008  
 Sells, J. F., 912  
 Sesser, John, 777, 1059\*  
 Seymour, C. F., 965  
 Sharp, J. H., 1196  
 Shaver, A. G., 720  
 Shaw, S. F., 916  
 Shea, T. J., 404  
 Shearer, I. D., 673  
 Shepard, Finley J., 870  
 Shepherd, J. A., 1008  
 Sheridan, W. F., 217  
 Sherritt, M. A., 962  
 Shields, E. J., 1010  
 Shipley, Murray, 85  
 Shipley, Walter, 262  
 Shoemaker, H., 632  
 Shoup, S. E., 872  
 Shumate, Golden, 1060  
 Shute, H. D., 42  
 Siegel, R. A., 827  
 Silaz, J. B., 403  
 Silcox, H. R. H., 262  
 Sims, Thetus W., 1142  
 Siverton, R. H., 725  
 Sinker, Joseph, 912\*  
 Sioussat, W. L., 126  
 Sisler, Lester, 83, 670  
 Skillman, T. J., 372  
 Skinner, O. C., 488  
 Slack, F. E., 870  
 Slader, Arthur H., 630  
 Slaughter, R. K., 261  
 Slawson, James H., 869  
 Slifer, H. J., 632  
 Sloat, H. S., 321  
 Slutker, Joseph, 90  
 Smart, A. G., 629, 871\*  
 Smith, Clarence R., 261  
 Smith, C. P., 583  
 Smith, C. U., 218  
 Smith, C. W., 965  
 Smith, D. C., 261  
 Smith, Edward, 487‡  
 Smith, E. P., 1110  
 Smith, E. W., 727  
 Smith, Frank J., 777  
 Smith, F. M., 673, 674, 830, 870  
 Smith, F. W. Jr., 915  
 Smith, I. P., 584  
 Smith, J. W., 403  
 Smith, L. R., 725  
 Smith, M. F., 130  
 Smith, M. P., 490  
 Smith, P., 1110  
 Smith, Wallace, 262  
 Smith, W. R., 777  
 Snapp, Lawrence, 322
- Snider, G. N., 404, 828  
 Snyder, G. W., 778  
 Snyder, H. A., 585‡  
 Snyder, H. G., 218  
 Sommers, T. M., 490  
 Spangler, D. E., 45\*  
 Spangler, W. N., 262  
 Spann, H. R., 490  
 Sparrow, L. L., 916  
 Spaulding, H. G., 630  
 Speer, E. L., 674  
 Spencer, Hugh, 1153  
 Spencer, W. T., 630  
 Spens, Conrad E., 628\*  
 Sperry, Henry M., 720\*  
 Spieth, W. S., 401  
 Spining, I. P., 126‡  
 Sprague, L. C., 42  
 Sprain, F. G., 964  
 Squire, Andrew, 627  
 Stackpole, S. T., 966  
 Stafford, F. O., 489, 631‡  
 Stafford, Hal R., 1055, 1056‡  
 Stanley, H. W., 88\*  
 Starke, C. M., 728\*  
 Starkweather, Leon A., 90  
 Staten, R. S., 870  
 Steele, W. P., 42  
 Steen, W. E., 632  
 Steeper, D. W., 321  
 Stembel, C. P., 443\*, 726  
 Stemm, J. R., 489, 629\*  
 Stenger, E., 777  
 Stephens, Dan V., 1142  
 Stephens, M. K., 725  
 Stevens, Carlos G., 45\*  
 Stevens, F. R., 915  
 Stevens, G. E., 172  
 Stevens, O. R., 218  
 Stevenson, A. A., 488  
 Stevenson, J. W., 443  
 Stewart, A. T., 307, 322  
 Stewart, C. F., 542  
 Stewart, D. C., 217  
 Stewart, E. H., 916  
 Stewart, G. S., 777  
 Stewart, K., 89  
 Stibbs, N. C., 586  
 Stilwell, Lewis B., 42  
 Stineman, N. M., 1196  
 Stock, N. E., 489  
 Stockard, S. A., 261  
 Stoer, C. H., 962  
 Story, D. A., 46\*, 90  
 Story, William G., 1009  
 Stotler, A. F., 542  
 Stranahan, J. H., 322  
 Street, Clement F., 822‡, 869  
 Strickland, C. F., 89  
 Strode, H. G., 964  
 Stump, H. N., 262  
 Sturtevant, E. R., 540  
 Sullivan, Arthur C., 487  
 Sullivan, John C., 774  
 Sullivan, M. W., 172, 261, 673  
 Sullivan, P. W., 89, 129‡  
 Sullivan, Roger C., 627  
 Sullivan, W. J., 673, 965  
 Sutherland, H. F., 1008  
 Sutton, F. W., 88  
 Switzer, J. W., 872  
 Sykes, J. P., 488  
 Symes, C. D., 674
- Tabb, J. W., 1105  
 Taber, J. S., 585  
 Talbot, John S., 1059  
 Talbott, J. R., 44, 129‡  
 Tapley, F. B., 90, 172‡  
 Taylor, B. W., 216  
 Taylor, E. B., 1058  
 Taylor, F. W., 1110  
 Taylor, Howard D., 962  
 Taylor, H. C., 965  
 Taylor, J. P., 366  
 Taylor, R. G., 365  
 Taylor, W. S., 45, 129\*, 828  
 Teague, O. R., 915  
 Temple, H. H., 916, 966‡  
 Terpning, B. E., 777  
 Terry, Charles M., 540  
 Thayer, V. D., 1152  
 Thayer, Walter, 965, 966\*  
 Thomas, J. H., 90  
 Thomas, O. C., 828, 915  
 Thompson, F. H., 217  
 Thompson, G. W., 1152  
 Thomson, R., 1154  
 Thomson, W. Paton, 963  
 Thwaites, E., 827
- Timberlake, W. H., 915  
 Titcomb, H. B., 726, 871\*  
 Toft, Guy, 262  
 Toland, H. A., 1152  
 Tompkins, M. F., 90  
 Toppan, W. R., 912  
 Topping, P., 542  
 Trapnell, W., 262  
 Tremaine, W. J., 915  
 Trickey, T. D., 725  
 Trimble, C. A., 1152  
 Trimble, R. R., 130  
 Trueb, A. M., 488  
 Trumbull, Robert S., 487  
 Tubman, S. A., 830, 916  
 Tucker, E. G., 726  
 Turner, J. J., 128, 914, 1058  
 Turner, T. B., 1008  
 Turton, M., 916  
 Turville, George A., 540  
 Twohy, James F., 822  
 Tyden, Emil, 720  
 Tyler, W. T., 443, 914
- Umshler, Arthur M., 216, 261  
 Underwood, E. Marvin, 443, 584\*  
 Urbans, F. W., 871  
 Usher, J. M. C., 725
- Van Alstyne, David, 169  
 Vanderlip, Frank P., 963  
 Vandersluis, W. M., 172, 585  
 Van Natta, N. C., 130, 368‡  
 Van Sant, R. M., 368  
 Van Valkenburgh, W., 172  
 Van Zandt, O. C., 1152  
 Vaughn, Richard J., 322  
 Vauclain, Samuel L., 488  
 Veatch, C. E., 727  
 Vermillion, C. A., 726  
 Vetter, G. W., 1154  
 Voelker, H. R., 674  
 Volkman, Sheldon A., 368  
 Voorhees, H. B., 217, 629, 725\*  
 Vosburgh, J. F., 404  
 Vosburgh, L. F., 322  
 Votaw, G. E., 629, 726
- Wackher, W., 128  
 Wade, W. W., 871  
 Wadsworth, Paul, 1009  
 Waffle, Jonas, 46  
 Wagner, H. W., 778, 872\*  
 Walcott, F. C., 627  
 Walker, Frank, 777  
 Wallace, James N., 627  
 Wallis, J. T., 218  
 Walliser, George, 1152  
 Walsh, John G., 261  
 Walsh, John M., 217  
 Walsh, J. L., 673  
 Walsh, M., 321  
 Walsh, M. K., 778  
 Walsh, W. F., 42  
 Walters, G. H., 586  
 Warburton, H. E., 218  
 Ward, J. W., 585  
 Ward, T. M., 404  
 Waring, F. M., 728‡  
 Warnock, H. R., 1110  
 Warner, George F., 827  
 Warnock, H. R., 1154, 1198\*  
 Warren, H. W., 1009  
 Warren, W. D., 90‡  
 Watkins, Edgar J., 439  
 Watkins, G. H., 90  
 Watkins, R. F., 870, 1008‡  
 Watson, E. L., 262  
 Watson, J. D., 725  
 Watson, P. E., 130  
 Watson, P. J. Jr., 172  
 Watt, J. R., 404  
 Watts, L. R., 443  
 Wear, Fred, 629, 827‡  
 Webb, A. H., 45‡  
 Webb, George H., 90  
 Weber, E. Y., 963  
 Weher, M., 1110  
 Webster, Charles P., 911, 1053\*  
 Webster, James, 489, 631‡  
 Webster, T. T., 217  
 Weidenhamer, W. M., 1059, 1109,  
 1197‡  
 Welch, W. E., 725  
 Weldon, A. T., 90, 218\*  
 Wells, E., 542  
 Wells, F. L., 629  
 Wells, W., 322  
 Welsh, P. J., 1008  
 Werlich, C. A., 262, 368‡
- West, Thomas H., 86  
 Westbrook, J. G., 321  
 Westcott, G. H., 777  
 Wharton, Oden H., 85‡  
 Wharton, R. C., 368  
 Wharton, T. A., 42  
 Wheeler, Charles P., 963  
 Wheeler, Herbert R., 88  
 Wheeler, W. A., 89  
 Wheless, O. W., 44  
 Whipple, A. L., 822  
 Whitby, Thomas, 261  
 White, H. C., 89  
 White, J. A., 261  
 White, J. W., 1007  
 Whitefield, C., 727  
 Whitlock, Homer, 1059  
 Whitlock, O. P., 1197  
 Whitney, A. J., 542, 584\*  
 Whitney, C. L., 128  
 Whitson, Milton J., 42  
 Whittenton, W. M., 261  
 Whybarck, G. S., 725  
 Wickersham, L. B., 172  
 Wieseckel, G. F., 1154  
 Wigney, Horace M., 125  
 Wild, George, 1010  
 Wildin, George W., 443\*  
 Wilkerson, E. B., 829, 915  
 Wilkes, John L., 585  
 Wilkins, A. S., 403  
 Wilkins, Harry T., 366  
 Wilkinson, C. W., 870  
 Willard, Daniel, 944, 992  
 Willcox, J. Taney, 366  
 Willett, A. H., 90  
 Williams, A. D., 172, 262  
 Williams, H. E., 674  
 Williams, Hubbard W., 403  
 Williams, L. C., 727  
 Williams, R. J., 585  
 Williams, S. A., 631, 1110  
 Williams, T. J. Jr., 829  
 Williams, Walter S., 216, 217\*  
 Wills, E. C., 1197  
 Wilson, C. C., 1152  
 Wilson, F. W., 1110  
 Wilson, G. M., 444  
 Wilson, L. F., 720, 774  
 Wilson, L. G., 368  
 Wilson, William A., 321  
 Wiltrot, H. L., 1153  
 Winey, C. L., 1055, 1056\*  
 Winkless, C. T., 1060  
 Winlock, G. L., 629, 673  
 Winter, C. M., 871, 872  
 Witt, C. A., 1110  
 Wise, W. B., 365  
 Wisman, C. M., 778  
 Witchell, A. L., 726  
 Witt, S. J., 585  
 Wolfe, F., 261  
 Wolf, W. T., 1109, 1153\*  
 Wolhaunter, Petermin, 963  
 Wolhaunter, D. P., 963  
 Wood, F. O., 89  
 Wood, J. R., 725  
 Wood, W. R., 778  
 Woodcock, E. D., 777  
 Wooddall, F. M., 367  
 Wooddall, J. M., 727  
 Woodfin, J. E., 1109  
 Woodruff, A. W., 171  
 Woodruff, G. C., 322  
 Woodruff, Robert E., 871, 1153‡  
 Woods, H. A., 542  
 Woods, John E., 627  
 Woodside, S. P., 262  
 Woodward, C. M., 630  
 Woolley, Robert W., 597\*  
 Worden, E. J., 777  
 Worthington, T. C., 1197  
 Wright, C. S., 1008  
 Wright, E. C., 916  
 Wright, James F., 870  
 Wright, O. C., 728
- Yardley, A. E., 828, 1059  
 Yardley, Charles B., 85  
 Yeargin, T. H., 404  
 Yoerg, Henry, 778  
 Young, A., 130  
 Young, C. D., 218  
 Young, H. W., 586  
 Young, James Jr., 585  
 Young, W. A., 443
- Ziebell, R. H., 130  
 Zschirpe, E. J., 1153

## OBITUARY

[\*Indicates photograph and sketch. ‡Indicates sketch only.]

- Allen, Harry L., 582  
 Anderson, C. M., 218  
 Anderson, G. M., 1154  
 Anderson, W. H., 130, 217  
 Arms, Harrison, 85  
 Arnold, William H., 404  
 Ayres, Thomas A., 1110  
 Barry, Thomas P., 1010
- Beck, James P., 488‡  
 Bee, W. G., 125\*  
 Bradley, Frank B., 126‡  
 Budd, John E., 46
- Cheyney, George S., 368  
 Cosgrave, William P., 90  
 Crandall, Charles L., 444‡
- Crane, Amos S., 1010‡
- Dale, Russell, 582  
 Davis, Frank W., 440  
 Dawson, E. A., 1104  
 Dickinson, Edward, 322‡  
 Digle, Edward, 872  
 Dunham, W. G., 540‡
- Elliott, H. P., 830, 870  
 Enright, John F., 444, 490\*, 585
- Farrell, B. F., 632  
 Fraser, R. C., 125, 169\*
- Garland, Thomas H., 365, 487‡  
 Gaul, Henry, 1105

## OBITUARY—Continued

[\*Indicates photograph and sketch. †Indicates sketch only.]

Hale, John H., 728	Large, Robert H., 674‡	Morrison, William R., 172	Tate, R. H., 872, 1154
Heusner, L. D., 778, 872	Leonard, P. H., 444	Mote, E. E., 778‡	Thweatt, Alexander S., 1060
Hough, Jesse, 214	Little, Stephen, 830‡	Murphy, Peter H., 912‡	Todd, Martin N., 444
Hughes, Oliver H., 868	McNeal, J. V., 632*	Newlands, Francis G., 1185‡	Tweed, C. H., 728
Hughart, J. H. P., 368‡, 914	Martin, Frank J., 90‡	Postlethwaite, Edward T., 966‡	White, Clinton, 1060
King, G. E., 966	Middleton, David L., 1060	Strom, A. A., 1057, 1106*	Wightman, Daniel A., 85‡
Kingston, Charles E., 172	Miller, George M., 966	Sykes, W. R., 916‡	Williamson, J. A., 778
Knight, W. H., 1110	Moffett, Harry L., 830		Wood, William J., 632
Koller, E. S., 444, 541	Monett, Elliott T., 490		Worcester, G. H., 966

## INTERSTATE COMMERCE COMMISSION RULINGS

[\* See also General Index.]

Baltimore Chamber of Commerce v. Baltimore & Ohio et al., 40	City of Memphis et al. v. Chicago, Rock Island & Pacific et al., 257
Board of Railroad Commissioners of the State of Iowa v. Ann Arbor et al., 438	Commercial Club of Mitchell, S. D., et al. v. Ahnapee & Western et al., 257
Board of Railroad Commissioners of the State of Iowa v. Atchison, Topeka & Santa Fe, 439	Commercial Club of the City of Duluth et al. v. Pennsylvania Company et al., 485
Buffalo Chamber of Commerce et al. v. Buffalo Creek et al., 485	Independent Ice, Feed & Fuel Company et al. v. San Pedro, Los Angeles & Salt Lake et al., 124
Cairo Board of Trade v. Cleveland, Cincinnati, Chicago & St. Louis et al., 484	Indianapolis Chamber of Commerce v. Cleveland, Cincinnati, Chicago & St. Louis et al., 484
Campbell's Creek Railroad v. Ann Arbor et al., 124	Lake Charles Rice Milling Company v. Southern Pacific Company et al., 773

## RAILWAY CONSTRUCTION

Alabama, Florida & Southern, 86	Gulf & East Texas, 260	New York, New Haven & Hartford, 127, 215, 308, 488, 541, 721
Apache Railway Company, 441	Gulf Coast Lines, 823	North Dakota Roads, 127
Atchison, Topeka & Santa Fe, 86, 215, 260, 365	Gulf, Colorado & Santa Fe, 86, 170, 721, 963	Northern Pacific, 43, 87, 170, 441, 721
Atlantic Coast Line, 963	Gulf, Mobile & Northern, 127	Oregon Short Line, 215, 776
Baltimore & Ohio, 43, 127	Gulf, Plainville & Northern, 87	Oregon-Washington Railroad & Navigation Co., 870
Buffalo & Northwestern, 963	Hillsboro, Cynthiana, Bainbridge & Chillicothe (Electric), 215	Osage County & Santa Fe, 170
Buffalo, Rochester & Pittsburgh, 776	Hocking Valley, 721	Pacific Electric, 365, 441, 488
Cambria & Indiana, 776	Houston, Richmond & San Antonio Interurban, 1057	Pacific Electric, 913
Canadian Northern Pacific, 963	Iberia, St. Mary & Eastern, 215	Pella-Leffler Short Line, 776
Canadian Pacific, 86, 260, 402	Illinois Central, 43, 87, 400, 441, 627, 721, 776, 823, 1106	Pennsylvania-Detroit, 170, 260
Canton & Ohio River (Electric), 776	Indiana Harbor Belt, 441	Pennsylvania Lines West, 87, 170, 260, 365, 1152
Chesapeake & Ohio, 260, 541, 582	International Railway (Electric), 1106	Philadelphia & Reading, 87, 170, 365, 582, 721, 870
Chesapeake & Ohio Northern, 260	Kanawha & Michigan, 488	Pennsylvania Railroad, 87, 215, 308, 1152
Chicago & North Western, 582, 913	Kansas City Terminal, 260	Philadelphia, Baltimore & Washington, 776
Chicago, Burlington & Quincy, 127, 582, 913	Kinder & Northwestern, 673	St. Louis-San Francisco, 308
Chicago Great Western, 541	Kettle Valley, 1057	St. Paul Union Depot Company, 170
Chicago, Indianapolis & Louisville, 43	Kirby-Bonner Lumber Company, 365	Salt Lake, Garfield & Western, 260
Chicago, Milwaukee & St. Paul, 86, 127, 627	Klamath Falls Municipal Railway, 170	Sand Springs, 365
Chicago, Rock Island & Pacific, 86, 365, 776	Lehigh & New England, 365	Santa Fe Lines, 870
Chicago Short Line, 86, 721	Lehigh Valley, 913, 1057	Savannah & Atlanta, 963
Cleveland, Cincinnati, Chicago & St. Louis, 43	Mahoning & Shenango (Electric), 260	Shelbyville & Frankfort (Electric), 776
Columbia Railway & Navigation Company (Electric), 1106	Mexican Roads, 87	Sioux City Terminal, 913
Cuyuna Southern, 673	Midland & Northwestern, 402	Southern Pacific, 215, 582, 673, 724
Dallas Southwestern Traction, 86, 582	Mineral Belt, 170	Southern Railway, 215, 776
Danville, Kankakee & Crescent Traction, 170	Minneapolis & St. Louis, 673	Texas & Pacific, 215, 823
Delaware & Hudson, 541	Minneapolis, St. Paul & Sault Ste. Marie, 127, 170	Texas Electric, 441
Duluth, Missabe & Northern, 170	Missouri, Kansas & Texas, 365, 402	Texas Roads (Electric), 308
Eastern Traction, 721	Missouri, Kansas & Texas of Texas, 1106	Toledo, St. Louis & Western, 308
Electric Short Line, 1106	Missouri Pacific, 170, 215	Union Pacific, 43, 215, 441
Erie, 86	Moltz Lumber Company's Road, 170	Virginian Railway, 87
Essex Terminal, 488	Monongahela & Southern, 823	Wabash, 170
Frankfort & Shelbyville Electric, 1057	Montana Southern, 823	Western Pacific, 127
Freeport Sulphur Company, 170	Muscle Shoals Traction, 260	Wichita & Walnut Valley (Electric), 215
Galesburg, Rockford & Northern, 308	Nashville, Chattanooga & St. Louis, 1057	Wisconsin Interurban, 441
Gauley & Eastern, 488	New York Central, 43, 441, 963	Yazoo & Mississippi Valley, 365
Golconda Northern, 913		Youngstown & Niles, 170
Grand Trunk, 170, 365, 582		
Great Northern, 170, 541, 721		
Green Bay & Western, 582		

## FINANCIAL NEWS

Atchison, Topeka & Santa Fe, 127, 823	Chicago & Eastern Illinois, 215, 403, 489, 913, 964	Deer River Railroad, 403
Atlantic & Pacific, 127	Chicago & Western Indiana, 127, 308	Delaware & Hudson, 127, 1196
Baltimore & Ohio, 308, 964, 1152, 1196	Chicago & Alton, 1058	Denver & Rio Grande, 583, 627, 673, 721
Boonville, St. Louis & Southern, 127	Chicago, Burlington & Quincy, 261, 308, 913	Denver & Salt Lake, 366
Boston & Maine, 87, 541, 627, 673, 721	Chicago Great Western, 43	Denver, Boulder & Western, 1007
Buffalo, Rochester & Pittsburgh, 171, 261	Chicago, Milwaukee & St. Paul, 215	Erie, 913, 1007
Canadian Northern, 87, 366, 721, 964, 1007	Chicago, Rock Island & Pacific, 43, 127, 261, 489, 583, 627, 721, 913	Evansville & Indianapolis, 823
Canadian Pacific, 1058	Cincinnati, Hamilton & Dayton, 43, 215, 308, 823	Fitchburg, 541
Carthage & Copenhagen, 403	Colorado & Southern, 541	Georgia Coast & Piedmont, 964
Central of New Jersey, 776	Colorado, Kansas & Oklahoma, 1106	Grand Trunk, 870
Central Vermont, 541	Connecticut River, 673	Grand Trunk Western, 913
Chesapeake & Ohio, 823		

Great Northern, 308  
Gulf, Mobile & Northern, 489, 1196

Hannibal & St. Louis, 627  
Hecking Valley, 403, 489, 964  
Houston & Texas Central, 43

Illinois Central, 776, 870  
Interborough Rapid Transit Company, 215

Kansas City, Mexico & Orient, 964  
Kansas City Terminal, 913

Lake Erie & Eastern, 1007  
Leavenworth & Topeka, 627  
Little Kanawha, 1196

Marshall & East Texas, 171, 1196  
Meridian & Memphis, 489, 1196  
Michigan Central, 1058  
Minneapolis & St. Louis, 673, 1106  
Minneapolis, St. Paul & Sault Ste. Marie, 541  
Mississippi Eastern, 127  
Missouri, Kansas & Texas, 441, 489, 541, 776  
Missouri Pacific, 308, 1058

Mohawk Railroad, 1196  
Mount Airy & Eastern, 776

New York & Pennsylvania, 1058  
New York Central, 366, 441, 627  
New York, New Haven & Hartford, 366, 441,  
489, 628, 721, 776, 913, 1106  
New York, Ontario & Western, 628, 1152  
Northern Pacific, 43, 308

Ocklawaka Valley, 1058

Pennsylvania Company, 1196  
Pennsylvania Railroad, 127, 215, 403, 913, 964,  
1058, 1196  
Pere Marquette, 673  
Peterborough & Hillsborough, 87  
Philadelphia, Baltimore & Washington, 913  
Pittsburgh & West Virginia, 870, 964  
Pittsburgh, Shawmut & Northern, 171  
Richmond & Rappahannock River, 870  
Ridgefield & New York, 870

St. Louis & Hannibal, 261  
St. Louis-San Francisco, 366  
Salina Northern, 261  
Savannah & Atlanta, 43, 171  
Savannah & Northwestern, 43  
Seaboard Air Line, 489  
Southern Pacific, 43  
Southern Railway, 541, 673  
Southwestern Railway, 1106

Tehuantepec National, 1152  
Tennessee Central, 628, 776  
Toledo, Peoria & Western, 87  
Utah Railway, 1106  
Washington, Baltimore & Annapolis, 823  
Washington, Potomac & Chesapeake, 1058  
Waupaca-Green Bay, 261  
Webbers Falls, 628  
Western Maryland, 721, 776  
Wheeling & Lake Erie, 87  
Wisconsin & Michigan, 964  
Yazoo & Mississippi Valley, 913

## FOREIGN RAILWAY NOTES

Africa, 261, 540, 581, 761, 823, 1166  
Argentina, 18, 116, 283, 628, 776, 912  
Australia, 75, 113, 171, 192, 598, 626, 755, 963,  
1196

Belgium, 417  
Bolivia, 168, 581  
Brazil, 744

Chile, 821  
China, 87, 96, 283, 400, 403, 463, 473, 514, 870  
Ceylon, 766  
Colombia, 963  
Costa Rica, 636, 902  
Denmark, 196, 259  
Dominican Republic, 823  
Ecuador, 427  
England, 101, 139, 168, 169, 234, 291, 297, 334,  
354, 356, 364, 378, 400, 416, 417, 419, 497,

England (*Continued*)  
550, 624, 628, 663, 709, 738, 761, 766, 768,  
774, 789, 800, 823, 880, 902, 944, 962, 964,  
1000, 1091, 1130, 1139, 1142, 1164, 1188,  
1196

France, 346, 349, 404, 534, 823, 1057  
Germany, 200, 244, 308, 346, 400, 840, 870, 892,  
1042  
Greece, 540, 912  
Guatemala, 200  
Holland, 645  
Honduras, 692  
India, 307, 417, 430, 582, 651, 790, 812, 876, 963  
Ireland, 652, 656, 774, 784, 1122, 1193  
Italy, 43, 85, 355, 1006, 1007, 1187  
Japan, 96, 185, 365, 488, 690, 772, 798, 944  
Malay States 1196

Mexico, 910, 1006  
Morocco, 658  
New South Wales, 518  
New Zealand, 1094, 1187  
Norway, 1151  
Peru, 363, 518, 618  
Russia, 68, 115, 171, 240, 259, 333, 363, 385, 522,  
568, 651, 823, 848  
Siam, 400, 488, 709  
Siberia, 821  
Sweden, 43, 87, 138, 878  
Spain, 96, 102, 151, 171, 307  
Switzerland, 12, 68, 225, 259, 365, 373, 470, 916,  
1007  
Uruguay, 363, 672  
Venezuela, 261